

# 40-Day Countdown

State Tested Benchmark Review  
for NGSSS Mathematics

**GRADE 3**



Region Center II  
Mr. Jose Dotres, Region Superintendent  
Miami-Dade County Public Schools

# 40-Day Countdown for Elementary Mathematics

Region Center II

January 2011

Grades 3 – 5



This 40-Day Mathematics Countdown to FCAT 2.0 has been developed as an instructional review resource that provides:

- Daily focus on five benchmark questions covering each tested Big Idea and Supporting Idea.
- Benchmark review items are compiled from released NGSSS new Test Item Specifications examples and the Florida Achieves Focus Benchmark practice test items.
- Daily 15 to 20-minute review lessons for the beginning of each class period.
- Multiple re-teaching opportunities to meet the needs of students.
- Repeated exposure and review in mathematics classes of the types of problems students will encounter on the FCAT 2.0 exam.
- Math problems that are introduced the first day followed by repeated problems presented in subsequent days with different numbers and values to promote practice and content application.
- Practice and review without interfering with the scope and sequence of district pacing guides.

The original Countdown materials were revised in December 2010 by Michèle S. Weiner, Assistant Principal at Sunny Isles Beach Community School, Alexandra Martillo and Shelley Werner, Curriculum Support Specialists, Region Center II.

**MA.3.A.1.1**

1. Nathan paid \$2 for each of the 3 books he bought at a bookstore. He can use the expression  $3 \times 2$  to find the total amount he paid for the 3 books. Which of the following is equal to  $3 \times 2$ ?

- A.  $3 + 3 + 3$
- B.  $2 + 2 + 2$
- C.  $3 + 2 + 3$
- D.  $2 \times 3 + 3$

**MA.3.A.1.2**

2. Raymond has 5 pictures each of the 3 types of ocean dolphins. He also has 4 pictures of river dolphins. The expression below represents the total number of dolphin pictures Raymond has.

$$(3 \times 5) + 4$$

Which expression below also represents the total number of dolphin pictures Raymond has?

- A.  $4 + (5 \times 3)$
- B.  $3 \times (5 \times 4)$
- C.  $(3 + 4) \times (5 + 4)$
- D.  $(3 \times 5) + (3 \times 4)$

**MA.3.A.6.2**

3. Mr. Jarrell has 4 students in his chess club. He will put them in pairs to play a game of chess. The chart below shows the names of the students in the club.

**STUDENTS IN CHESS CLUB**

Charles	Erin	Gayle	Paco
---------	------	-------	------

What is the total number of different pairs of two students that can be made?

- A. 2
- B. 4
- C. 6
- D. 8

**MA.3.A.6.1**

4. Ms. Tanaka is ordering calendars for the students at 4 elementary schools. The table below shows the number of students at each of the schools.

**STUDENTS IN ELEMENTARY SCHOOLS**

Number of School	Number of Student
Greendale	1,789
Jones Park	1,032
Shady River	2,115
Wakefield	1,992

Which is the best estimate of the total number of calendars Ms. Tanaka needs to order for all 4 schools?

- A. 4,000
- B. 5,000
- C. 7,000
- D. 8,000

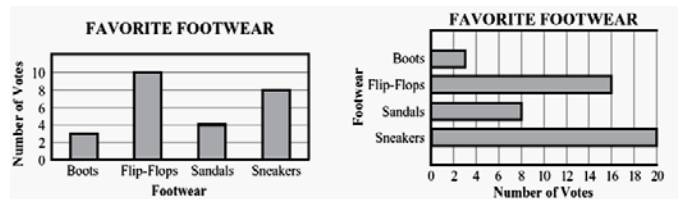
**MA.3.S.7.1**

5. The students in Mrs. Livingston’s class voted for their favorite food. The number of votes is shown in the table below.

**FAVORITE FOOTWEAR**

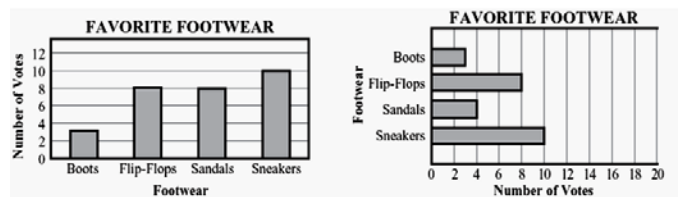
Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	3	8	4	10

Which bar graph correctly shows the number of votes on the table?



A.

C.



B.

D.

**MA.3.A.1.1**

1. Nathan paid \$5 for each of the 3 books he bought at a bookstore. He can use the expression  $3 \times 5$  to find the total amount he paid for the 3 books. Which of the following is equal to  $3 \times 5$ ?

- A.  $3 + 3 + 3$
- B.  $3 + 5 + 3$
- C.  $5 + 5 + 5$
- D.  $5 \times 3 + 3$

**MA.3.A.1.2**

2. Raymond has 6 pictures each of the 2 types of ocean dolphins. He also has 5 pictures of river dolphins. The expression below represents the total number of dolphin pictures Raymond has.

$$(2 \times 6) + 5$$

Which expression below also represents the total number of dolphin pictures Raymond has?

- A.  $(2 \times 6) + (2 \times 5)$
- B.  $2 \times (6 \times 5)$
- C.  $(2 + 5) \times (6 + 5)$
- D.  $5 + (6 \times 2)$

**MA.3.A.6.2**

3. Mr. Jarrell has 6 students in his chess club. He will put them in pairs to play a game of chess. The chart below shows the names of the students in the club.

**STUDENTS IN CHESS CLUB**

Sue	Erin	Gayle	Paco	John	Mary
-----	------	-------	------	------	------

What is the total number of different pairs of two students that can be made?

- A. 10
- B. 15
- C. 20
- D. 25

**MA.3.A.6.1**

4. Ms. Tanaka is ordering calendars for the students at 4 elementary schools. The table below shows the number of students at each of the schools.

**STUDENTS IN ELEMENTARY SCHOOLS**

Number of School	Number of Student
Greendale	1,789
Jones Park	1,032
Shady River	1,199
Wakefield	1,092

Which is the best estimate of the total number of calendars Ms. Tanaka needs to order for all 4 schools?

- A. 4,000
- B. 5,000
- C. 7,000
- D. 8,000

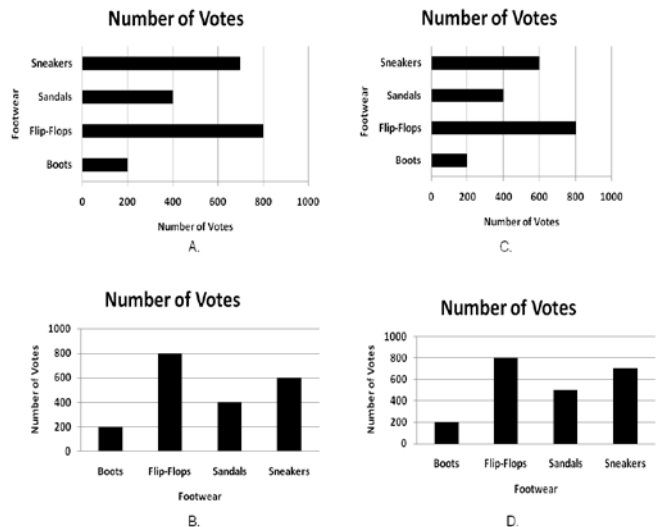
**MA.3.S.7.1**

5. Mrs. Livingston asked the students in her class to survey every student in the school about their favorite food. The number of votes is shown in the table below.

**FAVORITE FOOTWEAR**

Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	200	800	400	700

Which bar graph correctly shows the number of votes on the table?



**MA.3.A.1.1**

1. Nathan paid \$8 for each of the 3 books he bought at a bookstore. He can use the expression  $3 \times 8$  to find the total amount he paid for the 3 books. Which of the following is equal to  $3 \times 8$ ?

- A.  $8 \times 3 + 3$
- B.  $3 + 3 + 3$
- C.  $3 + 8 + 3$
- D.  $8 + 8 + 8$

**MA.3.A.1.2**

2. Raymond has 6 pictures each of the 4 types of ocean dolphins. He also has 7 pictures of river dolphins. The expression below represents the total number of dolphin pictures Raymond has.

$$(4 \times 6) + 7$$

Which expression below also represents the total number of dolphin pictures Raymond has?

- A.  $4 \times (6 \times 7)$
- B.  $7 + (6 \times 4)$
- C.  $(4 + 7) \times (6 + 7)$
- D.  $(4 \times 6) + (4 \times 7)$

**MA.3.A.6.2**

3. Mr. Jarrell has 8 students in his chess club. He will put them in pairs to play a game of chess. The chart below shows the names of the students in the club.

**STUDENTS IN CHESS CLUB**

Sue	Erin	Gayle	Paco	John	Mary	Luis	Lucy
-----	------	-------	------	------	------	------	------

What is the total number of different pairs of two students that can be made?

- A. 16
- B. 20
- C. 24
- D. 28

**MA.3.A.6.1**

4. Ms. Tanaka is ordering calendars for the students at 4 elementary schools. The table below shows the number of students at each of the schools.

**STUDENTS IN ELEMENTARY SCHOOLS**

Number of School	Number of Student
Greendale	2,789
Jones Park	1,501
Shady River	1,800
Wakefield	1,092

Which is the best estimate of the total number of calendars Ms. Tanaka needs to order for all 4 schools?

- A. 4,000
- B. 5,000
- C. 7,000
- D. 8,000

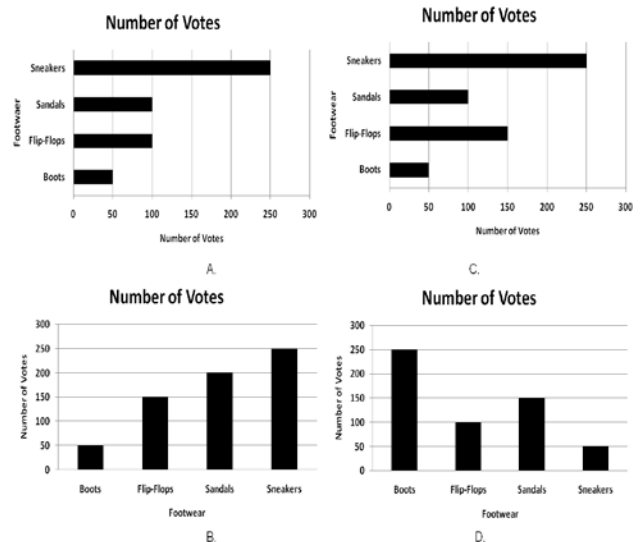
**MA.3.S.7.1**

5. Mrs. Smith asked the students in her class to survey every student in the school about their favorite food. The number of votes is shown in the table below.

**FAVORITE FOOTWEAR**

Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	50	150	100	250

Which bar graph correctly shows the number of votes on the table?



**MA.3.A.1.1**

1. Nathan paid \$9 for each of the 3 books he brought at a bookstore. He can use the expression  $3 \times 9$  to find the total amount he paid for the 3 books. Which of the following is equal to  $3 \times 9$ ?
- A.  $9 + 9 + 9$
  - B.  $9 \times 3 + 3$
  - C.  $3 + 9 + 3$
  - D.  $3 + 3 + 3$

**MA.3.A.1.2**

2. Raymond has 4 pictures each of the 3 types of ocean dolphins. He also has 5 pictures of river dolphins. The expression below represents the total number of dolphin pictures Raymond has.

$$(3 \times 4) + 5$$

Which expression below also represents the total number of dolphin pictures Raymond has?

- A.  $(3 \times 4) + (3 \times 5)$
- B.  $3 \times (4 \times 5)$
- C.  $(3 + 5) \times (4 + 5)$
- D.  $5 + (4 \times 3)$

**MA.3.A.6.2**

3. The table below shows shirt colors, pants colors, and team figures that Deron can choose for his football team.

Shirt Color	Pants Color	Team Figure
Orange (O)	Black (B)	Eagles (E)
Red (R)	White (W)	Tigers (T)

Deron will choose 1 shirt color, 1 pants color, and 1 team figure. How many possible combinations of 1 shirt color, 1 pants color, and 1 team figure does Deron have to choose from?

- A. 10
- B. 8
- C. 6
- D. 4

**MA.3.A.6.1**

4. Ms. Tanaka is ordering calendars for the students at 4 elementary schools. The table below shows the number of students at each of the schools.

**STUDENTS IN ELEMENTARY SCHOOLS**

Number of School	Number of Student
Greendale	1,500
Jones Park	2,501
Shady River	1,088
Wakefield	2,091

Which is the best estimate of the total number of calendars Ms. Tanaka needs to order for all 4 schools?

- A. 4,000
- B. 5,000
- C. 7,000
- D. 8,000

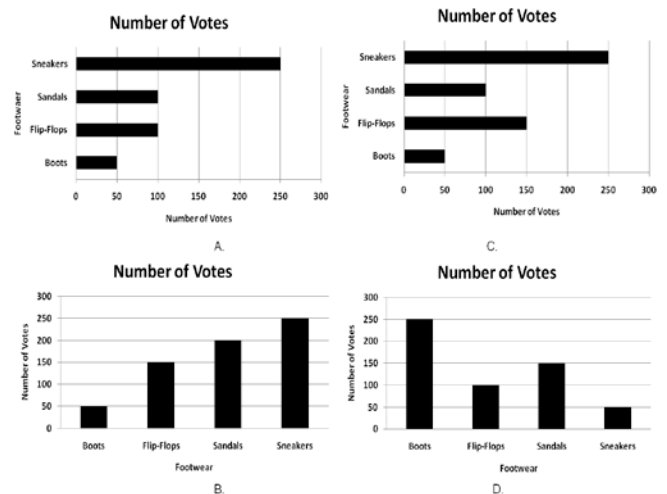
**MA.3.S.7.1**

5. Mrs. Forbe asked the students in her class to survey every student in the school about their favorite food. The number of votes are shown on the table below.

**FAVORITE FOOTWEAR**

Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	50	150	200	250

Which bar graph correctly shows the number of votes on the table?



**MA.3.A.1.1**

1. Nathan paid \$3 for each of the 3 books he brought at a bookstore. He can use the expression  $3 \times 3$  to find the total amount he paid for the 3 books. Which of the following is equal to  $3 \times 3$ ?
- A.  $3 + 3 + 3$
  - B.  $3 \times 3 + 3$
  - C.  $3 + 3 \times 3$
  - D.  $3 \times 3 \times 3$

**MA.3.A.1.2**

2. Raymond has 7 pictures each of the 4 types of ocean dolphins. He also has 9 pictures of river dolphins. The expression below represents the total number of dolphin pictures Raymond has.

$$(4 \times 7) + 9$$

Which expression below also represents the total number of dolphin pictures Raymond has?

- A.  $(4 \times 7) + (4 \times 9)$
- B.  $(4 + 9) \times (7 + 9)$
- C.  $9 + (7 \times 4)$
- D.  $4 \times (7 \times 9)$

**MA.3.A.6.2**

3. The table below shows shirt colors, pants colors, and team figures that Deron can choose for his football team.

Shirt Color	Pants Color	Team Figure
Orange (O)	Black (B)	Eagles (E)
Red (R)	White (W)	Tigers (T)
Green (G)	Yellow (Y)	Panthers (P)

Deron will choose 1 shirt color, 1 pants color, and 1 team figure. How many possible combinations of 1 shirt color, 1 pants color, and 1 team figure does Deron have to choose from?

- A. 9
- B. 18
- C. 27
- D. 36

**MA.3.A.6.1**

4. Ms. Tanaka is ordering calendars for the students at 4 elementary schools. The table below shows the number of students at each of the schools.

**STUDENTS IN ELEMENTARY SCHOOLS**

Number of School	Number of Student
Greendale	1,500
Jones Park	1,501
Shady River	1,088
Wakefield	1,091

Which is the best estimate of the total number of calendars Ms. Tanaka needs to order for all 4 schools?

- A. 4,000
- B. 5,000
- C. 6,000
- D. 7,000

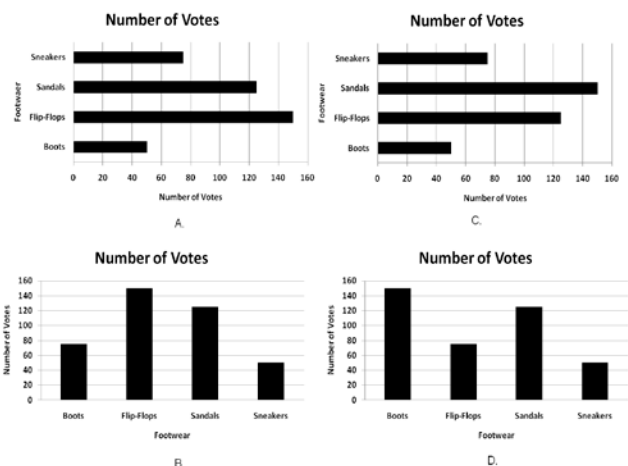
**MA.3.S.7.1**

5. Mrs. James asked the students in her class to survey every student in the school about their favorite food. The number of votes is shown in the table below.

**FAVORITE FOOTWEAR**

Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	50	125	150	75

Which bar graph correctly shows the number of votes on the table?

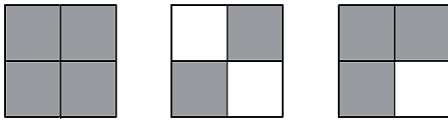


**MA.3.A.1.3**

1. A group of 24 people is getting on a roller coaster. Each car of the roller coaster can hold 4 people. Which equation could be used to find the number of roller coaster cars needed to hold all 24 people?
- A.  $24 + 4 = \square$
  - B.  $24 \times 4 = \square$
  - C.  $\square + 4 = 24$
  - D.  $\square \times 4 = 24$

**MA.3.A.2.1**

2. Rosalyn drew three figures and shaded parts of each figure.



What mixed number is represented by the shading of the three figures above?

- A.  $2 \frac{1}{4}$
- B.  $2 \frac{3}{4}$
- C.  $3 \frac{1}{4}$
- D.  $3 \frac{1}{2}$

**MA.3.A.4.1**

3. Allison is making lemonade for a party. The table below shows the number of lemons she will need to make several pitchers of lemonade.

**LEMONS NEEDED FOR LEMONADE**

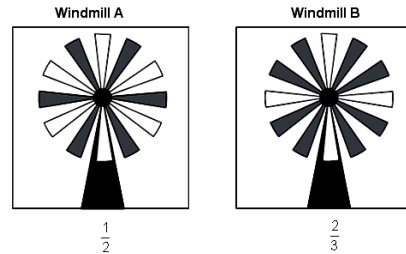
Number of Pitchers	Number of Lemons
2	10
5	25
8	40
9	?

According to the relationship shown in the table, how many lemons will Allison need to make 9 pitchers of lemonade?

- A. 5
- B. 15
- C. 45
- D. 65

**MA.3.A.2.3**

4. Two windmills are pictured below. On Windmill A,  $\frac{1}{2}$  of the blades are shaded gray. On Windmill B,  $\frac{2}{3}$  of the blades are shaded gray.



Which inequality below correctly compares the fractions of blades that are shaded gray?

- A.  $\frac{2}{3} < \frac{1}{2}$
- B.  $\frac{2}{3} > \frac{1}{2}$
- C.  $\frac{3}{2} < \frac{2}{1}$
- D.  $\frac{3}{2} > \frac{2}{1}$

**MA.3.A.6.2**

5. The table below shows shirt colors and pants colors that Deron can choose for his football team.

Shirt Color	Pants Color
Orange (O)	Black (B)
Red (R)	White (W)
Green (G)	Yellow (Y)

Deron will choose 1 shirt color and 1 pants color. How many possible combinations of 1 shirt color and 1 pants color does Deron have to choose from?

- A. 18
- B. 9
- C. 6
- D. 3

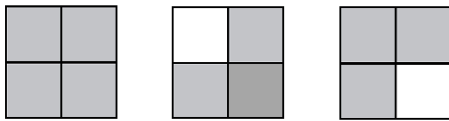


**MA.3.A.1.3**

1. A group of 36 people is getting on a roller coaster. Each car of the roller coaster can hold 6 people. Which equation could be used to find the number of roller coaster cars needed to hold all 36 people?
- A.  $\square \times 6 = 36$
  - B.  $\square + 6 = 36$
  - C.  $36 \times 6 = \square$
  - D.  $36 + 6 = \square$

**MA.3.A.2.1**

2. Rosalyn drew three figures and shaded parts of each figure.



What mixed number is represented by the shading of the three figures above?

- A.  $2 \frac{1}{4}$
- B.  $2 \frac{1}{2}$
- C.  $2 \frac{3}{4}$
- D.  $3 \frac{1}{4}$

**MA.3.A.4.1**

3. Allison is making lemonade for a party. The table below shows the number of lemons she will need to make several pitchers of lemonade.

**LEMONS NEEDED FOR LEMONADE**

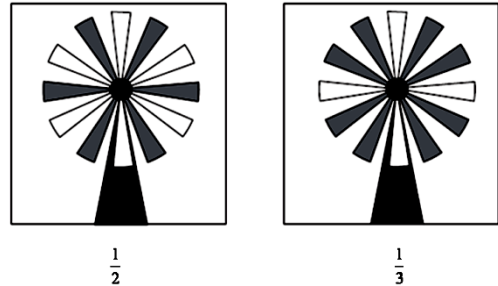
Number of Pitchers	Number of Lemons
1	6
3	18
5	30
7	?

According to the relationship shown in the table, how many lemons will Allison need to make 7 pitchers of lemonade?

- A. 42
- B. 30
- C. 18
- D. 6

**MA.3.A.2.3**

4. Two windmills are pictured below. On Windmill A,  $\frac{1}{2}$  of the blades are not shaded. On Windmill B,  $\frac{1}{3}$  of the blades are not shaded.



Which inequality below correctly compares the fractions of blades that are not shaded?

- A.  $\frac{1}{3} < \frac{1}{2}$
- B.  $\frac{1}{3} > \frac{1}{2}$
- C.  $\frac{3}{1} < \frac{2}{1}$
- D.  $\frac{3}{1} > \frac{2}{1}$

**MA.3.A.6.2**

5. The table below shows shirt colors and pants colors that Deron can choose for his football team.

Shirt Color	Pants Color
Orange (O)	Black (B)
Red (R)	White (W)

Deron will choose 1 shirt color and 1 pants color. How many possible combinations of 1 shirt color and 1 pants color does Deron have to choose from?

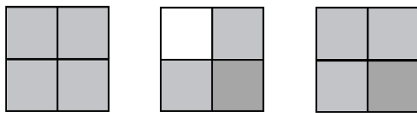
- A. 10
- B. 8
- C. 6
- D. 4

**MA.3.A.1.3**

1. A group of 48 people is getting on a roller coaster. Each car of the roller coaster can hold 2 people. Which equation could be used to find the number of roller coaster cars needed to hold all 48 people?
- A.  $\square + 2 = 48$
  - B.  $\square \times 2 = 48$
  - C.  $48 \times 2 = \square$
  - D.  $48 + 2 = \square$

**MA.3.A.2.1**

2. Rosalyn drew three figures and shaded parts of each figure.



What mixed number is represented by the shading of the three figures above?

- A.  $2 \frac{1}{4}$
- B.  $2 \frac{1}{2}$
- C.  $2 \frac{3}{4}$
- D.  $3 \frac{1}{4}$

**MA.3.A.4.1**

3. Allison is making lemonade for a party. The table below shows the number of lemons she will need to make several pitchers of lemonade.

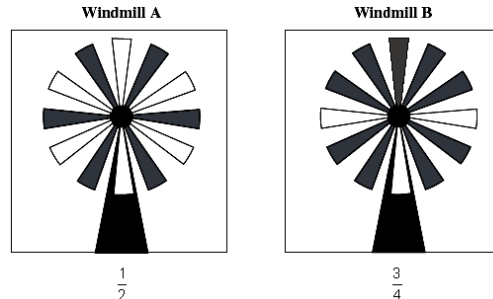
LEMONS NEEDED FOR LEMONADE	
Number of Pitchers	Number of Lemons
3	21
6	42
9	63
12	?

According to the relationship shown in the table, how many lemons will Allison need to make 12 pitchers of lemonade?

- A. 18
- B. 36
- C. 54
- D. 84

**MA.3.A.2.3**

4. Two windmills are pictured below. On Windmill A,  $\frac{1}{2}$  of the blades are shaded gray. On Windmill B,  $\frac{3}{4}$  of the blades are shaded gray.



Which inequality below correctly compares the fractions of blades that are shaded gray?

- A.  $\frac{4}{3} < \frac{2}{1}$
- B.  $\frac{4}{3} > \frac{2}{1}$
- C.  $\frac{3}{4} < \frac{1}{2}$
- D.  $\frac{3}{4} > \frac{1}{2}$

**MA.3.A.6.2**

5. The table below shows shirt colors, pants colors, and a team figure that Deron can choose for his football team.

Shirt Color	Pants Color	Team Figure
Orange (O)	Black (B)	Eagles (E)
Red (R)	White (W)	

Deron will choose 1 shirt color, 1 pants color, and 1 team figure. How many possible combinations of 1 shirt color, 1 pants color, and 1 team figure does Deron have to choose from?

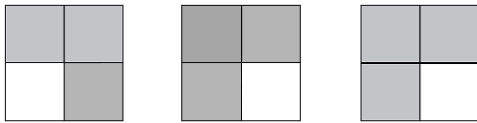
- A. 10
- B. 8
- C. 6
- D. 4

**MA.3.A.1.3**

1. A group of 56 people is getting on a roller coaster. Each car of the roller coaster can hold 2 people. Which equation could be used to find the number of roller coaster cars needed to hold all 56 people?
- A.  $\square + 2 = 56$
  - B.  $\square \times 2 = 56$
  - C.  $56 + 2 = \square$
  - D.  $56 \times 2 = \square$

**MA.3.A.2.1**

2. Rosalyn drew three figures and shaded parts of each figure.



What mixed number is represented by the shading of the three figures above?

- A.  $2 \frac{1}{4}$
- B.  $2 \frac{3}{4}$
- C.  $3 \frac{1}{4}$
- D.  $3 \frac{1}{2}$

**MA.3.A.4.1**

3. Allison is making lemonade for a party. The table below shows the number of lemons she will need to make several pitchers of lemonade.

**LEMONS NEEDED FOR LEMONADE**

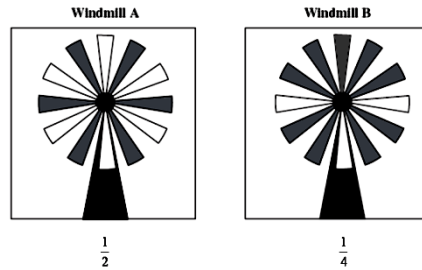
Number of Pitchers	Number of Lemons
1	9
2	18
3	27
4	?

According to the relationship shown in the table, how many lemons will Allison need to make 5 pitchers of lemonade?

- A. 35
- B. 36
- C. 45
- D. 46

**MA.3.A.2.3**

4. Two windmills are pictured below. On Windmill A,  $\frac{1}{2}$  of the blades are not shaded. On Windmill B,  $\frac{1}{4}$  of the blades are not shaded.



Which inequality below correctly compares the fractions of blades that are not shaded?

- A.  $\frac{4}{1} < \frac{2}{1}$
- B.  $\frac{4}{1} > \frac{2}{1}$
- C.  $\frac{1}{4} < \frac{1}{2}$
- D.  $\frac{1}{4} > \frac{1}{2}$

**MA.3.A.6.2**

5. The table below shows shirt colors, pants colors, and team figures that Deron can choose for his football team.

Shirt Color	Pants Color	Team Figure
Orange (O)	Black (B)	Eagles (E)
Red (R)	White (W)	Tigers (T)
Green (G)	Yellow (Y)	

Deron will choose 1 shirt color, 1 pants color, and 1 team figure. How many possible combinations of 1 shirt color, 1 pants color, and 1 team figure does Deron have to choose from?

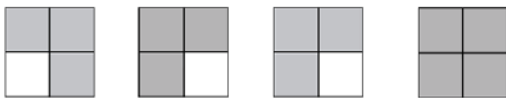
- A. 20
- B. 18
- C. 12
- D. 8

**MA.3.A.1.3**

1. A group of 30 people is getting on a roller coaster. Each car of the roller coaster can hold 6 people. Which equation could be used to find the number of roller coaster cars needed to hold all 30 people?
- A.  $30 \times 6 = \square$
  - B.  $30 + 6 = \square$
  - C.  $\square \times 6 = 30$
  - D.  $\square + 6 = 30$

**MA.3.A.2.1**

2. Rosalyn drew four figures and shaded parts of each figure.



What mixed number is represented by the shading of the three figures above?

- A.  $2 \frac{1}{4}$
  - B.  $2 \frac{3}{4}$
  - C.  $3 \frac{1}{4}$
  - D.  $3 \frac{1}{2}$
- MA.3.A.4.1**
3. Allison is making lemonade for a party. The table below shows the number of lemons she will need to make several pitchers of lemonade.

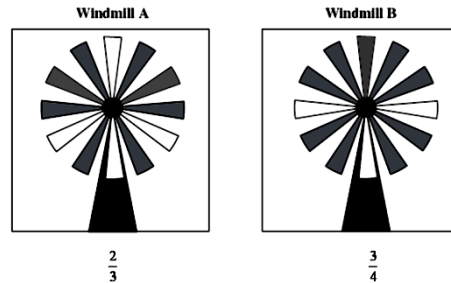
LEMONS NEEDED FOR LEMONADE	
Number of Pitchers	Number of Lemons
1	9
2	18
3	27
4	?

According to the relationship shown in the table, how many lemons will Allison need to make 6 pitchers of lemonade?

- A. 36
- B. 45
- C. 54
- D. 63

**MA.3.A.2.3**

4. Two windmills are pictured below. On Windmill A,  $\frac{2}{3}$  of the blades are shaded gray. On Windmill B,  $\frac{3}{4}$  of the blades are shaded gray.



Which inequality below correctly compares the fractions of blades that are shaded gray?

- A.  $\frac{2}{3} < \frac{3}{4}$
- B.  $\frac{2}{3} > \frac{3}{4}$
- C.  $\frac{3}{2} < \frac{4}{3}$
- D.  $\frac{3}{2} > \frac{4}{3}$

**MA.3.A.6.2**

5. The table below shows shirt colors, pants colors, and team figures that Deron can choose for his football team.

Shirt Color	Pants Color	Team Figure
Orange (O)	Black (B)	Eagles (E)
Red (R)	White (W)	Tigers (T)
Green (G)		

Deron will choose 1 shirt color, 1 pants color, and 1 team figure. How many possible combinations of 1 shirt color, 1 pants color, and 1 team figure does Deron have to choose from?

- A. 15
- B. 12
- C. 10
- D. 7

**MA.3.A.2.4**

1. Ramona filled 10 party balloons with air. She noticed that  $\frac{4}{10}$  of the balloons were striped, as shown below.



Which fraction is equal to  $\frac{4}{10}$ ?

- A.  $\frac{2}{5}$
- B.  $\frac{2}{3}$
- C.  $\frac{2}{4}$
- D.  $\frac{2}{8}$

**MA.3.G.3.1**

2. Andrew bought the frame shown below for his sports picture.



Which best describes the shape of the frame?

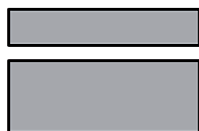
- A. parallelogram
- B. pentagon
- C. rhombus
- D. trapezoid

**MA.3.G.3.3**

3. Sam cut a rectangular piece of paper into 2 congruent pieces. Which could be the pieces of paper?



A.



C.



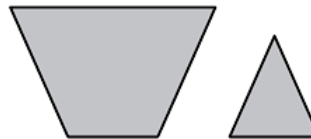
B.



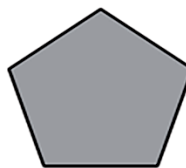
D.

**MA.3.G.3.2**

4. Becky has two shape stickers, as shown below.



Which of the following figures can Becky make by combining the stickers without overlapping?



A.



C.



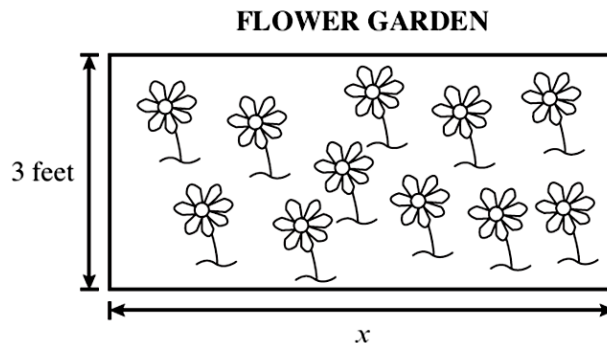
B.



D.

**MA.3.G.5.1**

5. The perimeter of the flower garden is 20 feet, as shown below.



If the width of the flower garden is 3 feet, what is the length?

- A. 17 feet
- B. 10 feet
- C. 7 feet
- D. 6 feet

**MA.3.A.2.4**

1. Ramona filled 10 party balloons with air. She noticed that  $\frac{6}{10}$  of the balloons had dots, as shown below.



Which fraction is equal to  $\frac{6}{10}$ ?

- A.  $\frac{2}{5}$
- B.  $\frac{3}{5}$
- C.  $\frac{2}{4}$
- D.  $\frac{2}{8}$

**MA.3.G.3.1**

2. Andrew bought the frame shown below for his sports picture.

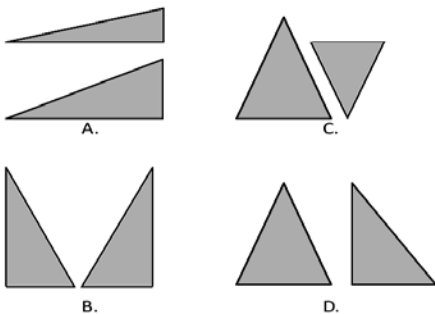


Which best describes the shape of the frame?

- A. octagon
- B. hexagon
- C. pentagon
- D. trapezoid

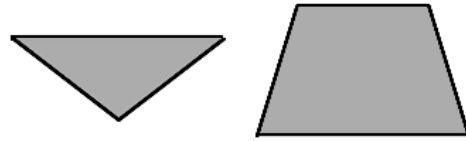
**MA.3.G.3.3**

3. Sam cut a triangular piece of paper into 2 congruent pieces. Which could be the pieces of paper?

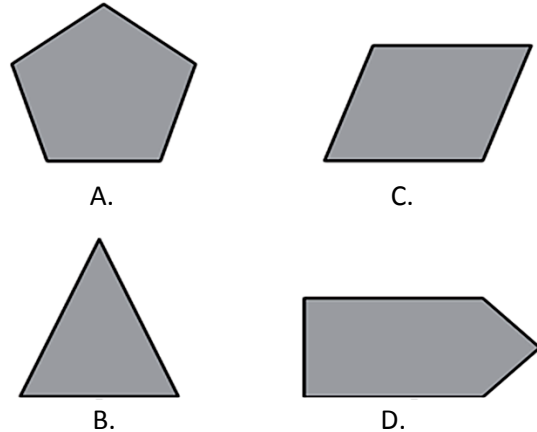


**MA.3.G.3.2**

4. Becky has two shape stickers, as shown below.

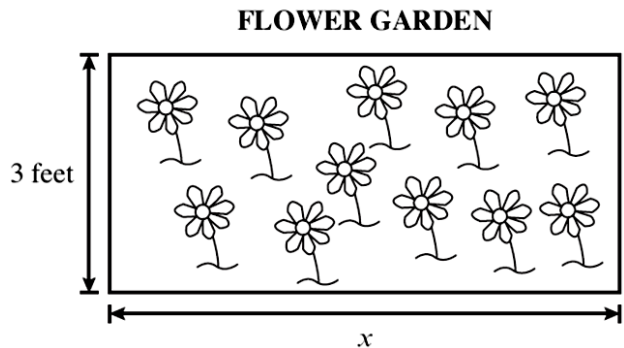


Which of the following figures can Becky make by combining the stickers without overlapping?



**MA.3.G.5.1**

5. The perimeter of the flower garden is 30 feet, as shown below.



If the width of the flower garden is 3 feet, what is the length?

- A. 24 feet
- B. 12 feet
- C. 6 feet
- D. 3 feet

**MA.3.A.2.4**

1. Ramona filled 12 party balloons with air. She noticed that  $\frac{4}{12}$  of the balloons were striped, as shown below.



Which fraction is equal to  $\frac{4}{12}$ ?

- A.  $\frac{1}{2}$
- B.  $\frac{1}{3}$
- C.  $\frac{1}{4}$
- D.  $\frac{1}{6}$

**MA.3.G.3.1**

2. Andrew bought the frame shown below for his sports picture.

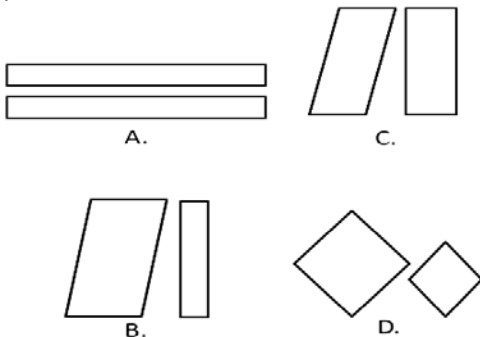


Which best describes the shape of the frame?

- A. octagon
- B. hexagon
- C. pentagon
- D. trapezoid

**MA.3.G.3.3**

3. Sam cut a rectangular piece of paper into 2 congruent pieces. Which could be the pieces of paper?

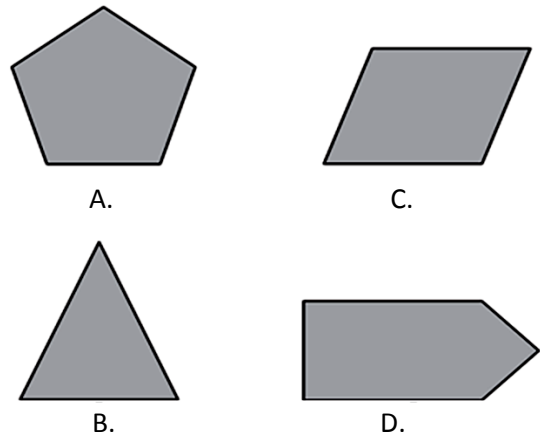


**MA.3.G.3.2**

4. Becky has two shape stickers, as shown below.

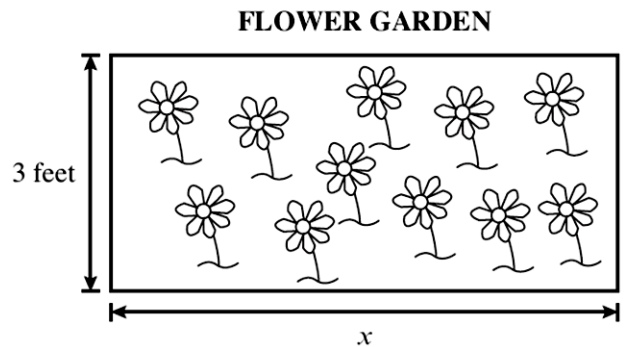


Which of the following figures can Becky make by combining the stickers without overlapping?



**MA.3.G.5.1**

5. The perimeter of the flower garden is 36 feet, as shown below.



If the width of the flower garden is 3 feet, what is the length?

- A. 36 feet
- B. 30 feet
- C. 24 feet
- D. 15 feet

**MA.3.A.2.4**

1. Ramona filled 12 party balloons with air. She noticed that  $\frac{8}{12}$  of the balloons had dots, as shown below.



Which fraction is equal to  $\frac{8}{12}$ ?

- A.  $\frac{2}{6}$
- B.  $\frac{2}{5}$
- C.  $\frac{2}{4}$
- D.  $\frac{2}{3}$

**MA.3.G.3.1**

2. Andrew bought the frame shown below for his sports picture.



Which best describes the shape of the frame?

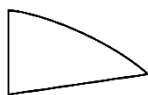
- A. octagon
- B. hexagon
- C. pentagon
- D. trapezoid

**MA.3.G.3.3**

3. Sam saw many different shapes of windows on buildings during his vacation. Four of the windows he saw are drawn below. Which window appears to have only 1 line symmetry?



A.



C.



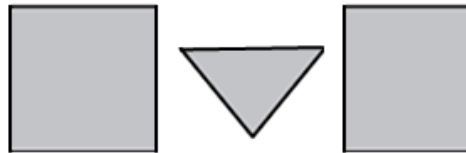
B.



D.

**MA.3.G.3.2**

4. Becky has three shape stickers, as shown below.



Which of the following figures can Becky make by combining the stickers without overlapping?



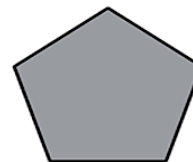
A.



C.



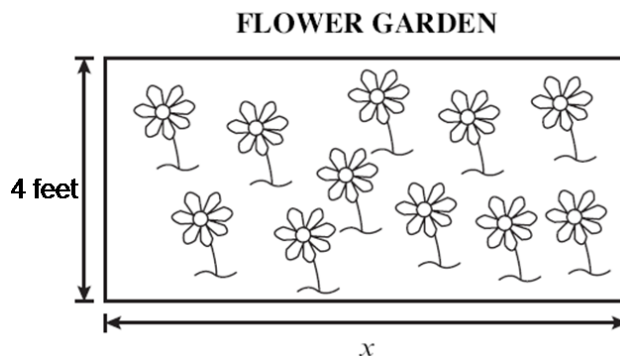
B.



D.

**MA.3.G.5.1**

5. The perimeter of the flower garden is 36 feet, as shown below.



If the width of the flower garden is 4 feet, what is the length?

- A. 36 feet
- B. 30 feet
- C. 28 feet
- D. 14 feet



**MA.3.A.2.4**

1. Ramona filled 8 party balloons with air. She noticed that  $\frac{6}{8}$  of the balloons had dots, as shown below.



Which fraction is equal to  $\frac{6}{8}$ ?

- A.  $\frac{3}{8}$
- B.  $\frac{3}{6}$
- C.  $\frac{3}{4}$
- D.  $\frac{3}{3}$

**MA.3.G.3.1**

2. Andrew bought the frame shown below for his sports picture.

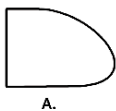


Which best describes the shape of the frame?

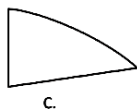
- A. parallelogram
- B. pentagon
- C. rhombus
- D. trapezoid

**MA.3.G.3.3**

3. Sam saw many different shapes of windows on buildings during his vacation. Four of the windows he saw are drawn below. Which window appears to have more than 1 line symmetry?



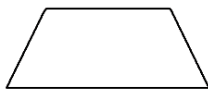
A.



C.



B.



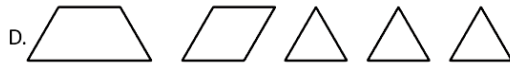
D.

**MA.3.G.3.2**

4. Becky noticed a figure like the one shown below on a billboard.

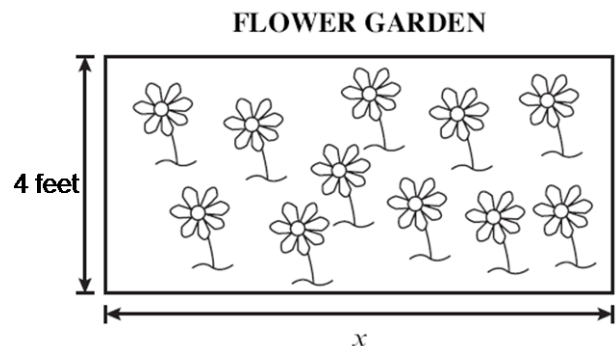


Which set of shapes could be put together; without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?



**MA.3.G.5.1**

5. The perimeter of the flower garden is 20 feet, as shown below.



If the width of the flower garden is 4 feet, what is the length?

- A. 4 feet
- B. 6 feet
- C. 20 feet
- D. 24 feet

**MA.3.A.1.1**

1. Mary is having ice-cream for dessert. She can choose either a waffle cone or sugar cone, and she can have vanilla, chocolate, or strawberry flavored ice-cream.



How many different ice-cream flavor and cone combinations are possible?

- A. 8
- B. 6
- C. 5
- D. 3

**MA.3.A.1.2**

2. Isabella cannot remember the product of  $9 \times 8$ . Which of the following is another expression that Isabella could use to find the product of  $9 \times 8$ ?

- A.  $(9 \times 5) + (9 \times 3)$
- B.  $(9 \times 4) + (9 \times 2)$
- C.  $(9 \times 1) + (4 \times 2)$
- D.  $(9 \times 2) + (8 \times 6)$

**MA.3.A.5.3**

3. Trina went to see a play. The clock below shows the time that Trina got to the theatre.



If the play started at 8:00, how many minutes did Trina wait at the theatre before the play started?

- A. 45 minutes
- B. 30 minutes
- C. 15 minutes
- D. 5 minutes

**MA.3.A.6.2**

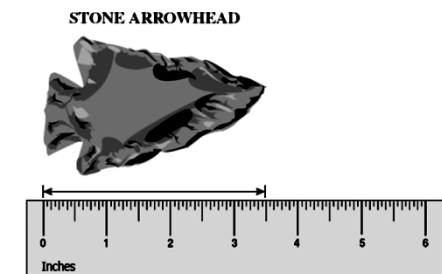
4. The table below shows the wins and losses for the State University basketball team over the past 10 years. During the year it won the most games, how many more wins did State University have than losses?

State University Basketball		
Year	Wins	Losses
2001	3	12
2002	7	8
2003	10	5
2004	8	7
2005	12	3
2006	9	6
2007	8	7
2008	11	4
2009	9	6
2010	5	10

- A. 7
- B. 9
- C. 11
- D. 12

**MA.3.G.5.2**

5. Terrence found a stone arrowhead like the one shown below. Terrence can find the stone arrowhead's exact length by holding the ruler, as shown below.



What is the exact length, in inches, of the stone arrowhead?

- A.  $2 \frac{1}{2}$  inches
- B.  $2 \frac{1}{4}$  inches
- C.  $3 \frac{1}{2}$  inches
- D.  $3 \frac{1}{4}$  inches

**MA.3.A.1.1**

1. John and his three friends are going to equally share the 32 cookies from the cookie jar. John could first give everyone one cookie, and then give everyone a second cookie, and so on, until all of the cookies have been shared equally.

Which expression is another way of finding the number of cookies each of the 4 friends will get?

- A.  $4 + 32$   
 B.  $32 - 4$   
 C.  $4 \times 32$   
 D.  $32 \div 4$

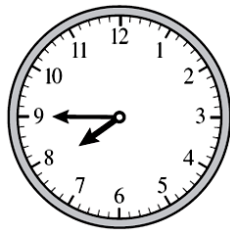
**MA.3.A.1.2**

2. Isabella cannot remember the product of  $8 \times 7$ . Which of the following is another expression that Isabella could use to find the product of  $8 \times 7$ ?

- A.  $(8 \times 5) + (8 \times 3)$   
 B.  $(8 \times 4) + (8 \times 3)$   
 C.  $(8 \times 1) + (8 \times 2)$   
 D.  $(8 \times 2) + (8 \times 6)$

**MA.3.A.5.3**

3. Trina went to see a play. The clock below shows the time that Trina got to the theatre.



If the play started at 8:15, how many minutes did Trina wait at the theatre before the play started?

- A. 45 minutes  
 B. 30 minutes  
 C. 15 minutes  
 D. 5 minutes

**MA.3.A.6.2**

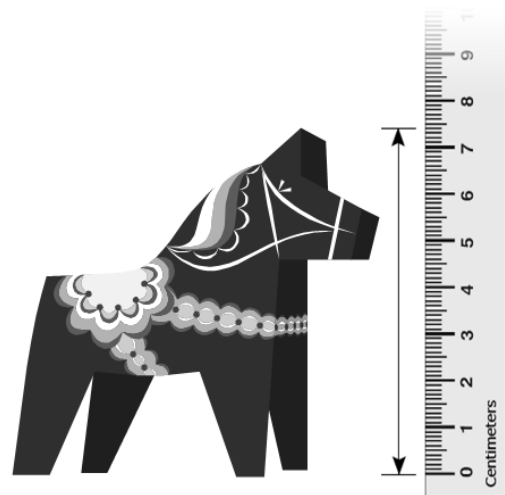
4. The table below shows the wins and losses for the State University basketball team over the past 10 years. During the year it won 11 games, how many more wins did State University have than losses?

State University Basketball		
Year	Wins	Losses
2001	3	12
2002	7	8
2003	10	5
2004	8	7
2005	12	3
2006	9	6
2007	8	7
2008	11	4
2009	9	6
2010	5	10

- A. 7  
 B. 9  
 C. 11  
 D. 12

**MA.3.G.5.2**

5. Trina found a miniature toy horse in her cereal box. She can find the miniature toy horse's exact height by holding the ruler, as shown below.

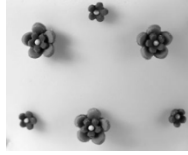


What is the exact height, in centimeters, of the miniature toy horse?

- A. 6 centimeters 4 millimeters  
 B. 7 centimeters 0 millimeters  
 C. 7 centimeters 4 millimeters  
 D. 7 centimeters 8 millimeters

**MA.3.A.1.1**

1. Ana and her sister are putting icing flowers on a birthday cake. Their cake will be cut into 8 slices, and they want 9 icing flowers on each slice.



How many icing flowers do they need for their whole cake?

- A. 45 pieces  
B. 54 pieces  
C. 63 pieces  
D. 72 pieces

**MA.3.A.1.2**

2. Isabella cannot remember the product of  $7 \times 4$ . Which of the following is another expression that Isabella could use to find the product of  $7 \times 4$ ?

- A.  $(7 \times 4) + (7 \times 4)$   
B.  $(7 \times 4) + (7 \times 3)$   
C.  $(7 \times 1) + (7 \times 2)$   
D.  $(7 \times 2) + (7 \times 2)$

**MA.3.A.5.3**

3. Trina went to see a play. The clock below shows the time that Trina got to the theatre.



If the play started at 9:45, how many minutes did Trina wait at the theatre before the play started?

- A. 60 minutes  
B. 45 minutes  
C. 30 minutes  
D. 15 minutes

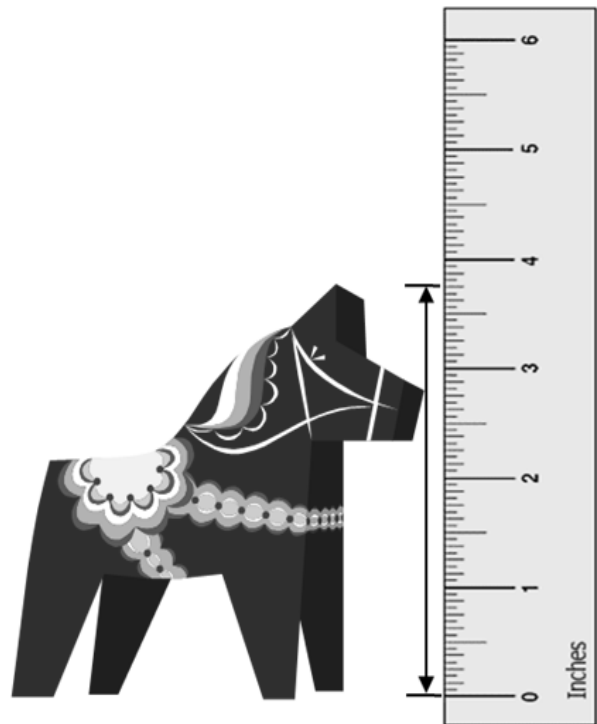
**MA.3.A.6.2**

4. The Louis family has four children: Bruce, Cindy, Paul, and Maria. Cindy is older than Maria. Maria is older than Bruce. Cindy is younger than Paul. Which of the four Louis children is the oldest?

- A. Bruce  
B. Cindy  
C. Paul  
D. Maria

**MA.3.G.5.2**

5. Trina found a miniature toy horse in her cereal box. She can find the miniature toy horse's exact height by holding the ruler, as shown below.



What is the exact height, in inches, of the miniature toy horse?

- A.  $3 \frac{1}{4}$  inches  
B.  $3 \frac{3}{4}$  inches  
C.  $4 \frac{1}{4}$  inches  
D.  $4 \frac{3}{4}$  inches

**MA.3.A.1.1**

1. At Ray's birthday party, Ray and 7 of her friends break open a piñata. When the piñata breaks, 56 "Hot Wheels" toy cars come out.



HOT WHEELS

If they share the "Hot Wheels" toy cars equally, how many "Hot Wheels" toy cars will each of the 8 children get?

- A. 5 Hot Wheels toy cars  
B. 6 Hot Wheels toy cars  
C. 7 Hot Wheels toy cars  
D. 8 Hot Wheels toy cars

**MA.3.A.1.2**

2. Isabella cannot remember the product of  $7 \times 6$ . Which of the following is another expression that Isabella could use to find the product of  $7 \times 6$ ?

- A.  $(7 \times 6) + (7 \times 6)$   
B.  $(7 \times 6) + (7 \times 3)$   
C.  $(7 \times 2) + (7 \times 2)$   
D.  $(7 \times 3) + (7 \times 3)$

**MA.3.A.5.3**

3. Trina went to see a play. The clock below shows the time the play began.



If the play ended at 2:00, how many minutes did the play last?

- A. 25 minutes  
B. 30 minutes  
C. 35 minutes  
D. 45 minutes

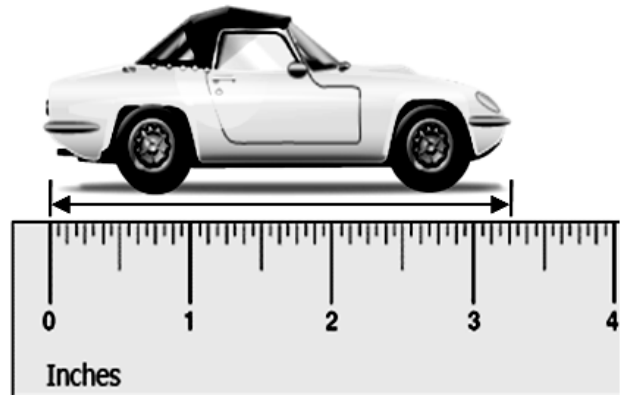
**MA.3.A.6.2**

4. The Louis family has four children: Bruce, Cindy, Paul, and Maria. Cindy is older than Maria. Maria is older than Bruce. Cindy is younger than Paul. Which of the four Louis children is the youngest?

- A. Bruce  
B. Cindy  
C. Paul  
D. Maria

**MA.3.G.5.2**

5. Elijah collects model cars like the one shown below. Elijah can find the model car's exact length by holding the ruler, as shown below.

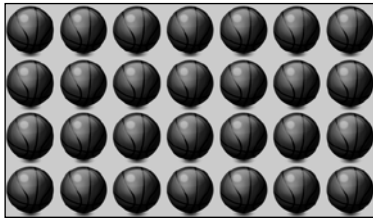


What is the exact length, in inches, of the model car?

- A.  $2 \frac{1}{2}$  inches  
B.  $2 \frac{1}{4}$  inches  
C.  $3 \frac{1}{2}$  inches  
D.  $3 \frac{1}{4}$  inches

**MA.3.A.1.1**

1. Mike is making a poster to take to a Heat basketball game. The poster has 4 rows of basketballs, and there are 7 basketballs in each row.



Which expression will help Mike figure out how many basketballs there are on his poster?

- A.  $7 - 4$
- B.  $7 + 4$
- C.  $4 \div 7$
- D.  $4 \times 7$

**MA.3.A.1.2**

2. Isabella cannot remember the product of  $9 \times 7$ . Which of the following is another expression that Isabella could use to find the product of  $9 \times 7$ ?

- A.  $(9 \times 4) + (9 \times 4)$
- B.  $(9 \times 4) + (9 \times 3)$
- C.  $(9 \times 1) + (9 \times 2)$
- D.  $(9 \times 2) + (9 \times 2)$

**MA.3.A.5.3**

3. Trina went to see a play. The clock below shows the time the play began.



If the play ended at 2:15, how many minutes did the play last?

- A. 30 minutes
- B. 40 minutes
- C. 50 minutes
- D. 60 minutes

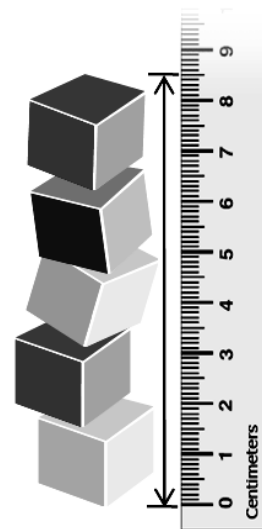
**MA.3.A.6.2**

4. The Louis family has four children: Bruce, Cindy, Paul, and Maria. Cindy is older than Maria. Maria is older than Bruce. Cindy is younger than Paul. Which of the four Louis children is the second oldest?

- A. Bruce
- B. Cindy
- C. Paul
- D. Maria

**MA.3.G.5.2**

5. Derek stacked five cubes vertically like the picture shown below. Derek can find the model car's exact length by holding the ruler, as shown below.



Using the ruler, what is the exact height, in centimeters, of the stacked cubes?

- A. 7 centimeters 0 millimeters
- B. 7 centimeters 5 millimeters
- C. 8 centimeters 0 millimeters
- D. 8 centimeters 5 millimeters

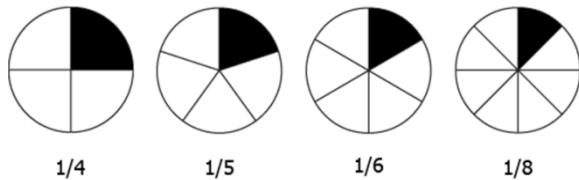
**MA.3.A.1.3**

1. John was studying his division facts for a quiz. His mom asked him the division problem 48 divided by 6. John was having a difficult time thinking of the answer. His mom told him to think about multiplication. Which multiplication fact would help him solve this problem?

- A.  $6 \times 48 = 288$
- B.  $4 \times 12 = 48$
- C.  $2 \times 24 = 48$
- D.  $6 \times 8 = 48$

**MA.3.A.2.3**

2. The circles shown below are all the same size. Each circle is divided into equal parts, with one part of each circle shaded in. Which of the following inequalities correctly compares the shaded parts of the circles?



- A.  $\frac{1}{8} < \frac{1}{4}$
- B.  $\frac{1}{8} > \frac{1}{4}$
- C.  $\frac{1}{6} < \frac{1}{8}$
- D.  $\frac{1}{5} < \frac{1}{8}$

**MA.3.G.3.1**

3. Diana drew the four shapes below.

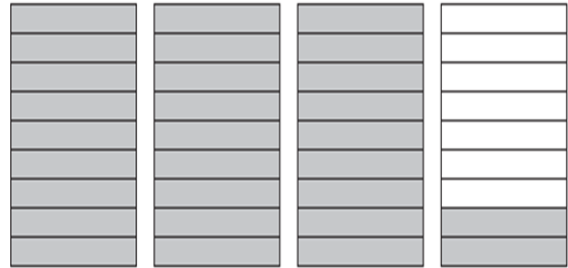


Which of the following is true about the shapes?

- A. Each shape has exactly two pairs of parallel sides.
- B. Each shape has exactly five vertices.
- C. Each shape is a regular polygon.
- D. Each shape is a quadrilateral.

**MA.3.A.2.4**

4. In the picture below,  $3\frac{2}{9}$  of the objects are shaded.

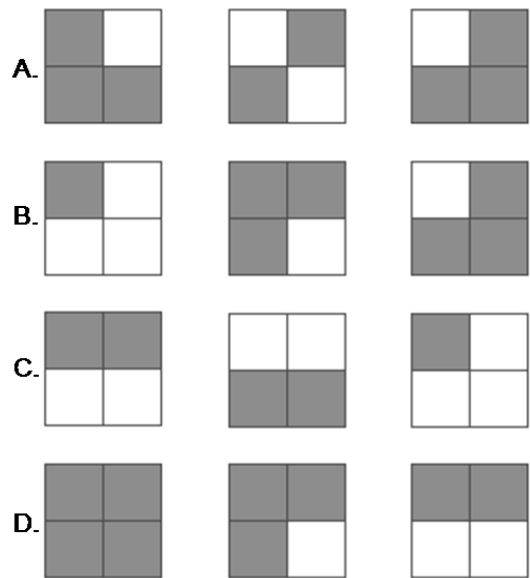


Which fraction is equivalent to  $3\frac{2}{9}$ ?

- A.  $\frac{29}{4}$
- B.  $\frac{29}{7}$
- C.  $\frac{29}{9}$
- D.  $\frac{29}{36}$

**MA.3.A.2.1**

5. Vanessa is coloring a drawing by shading in parts of three figures. Which of the following choices represents  $1\frac{1}{4}$  shaded figures?



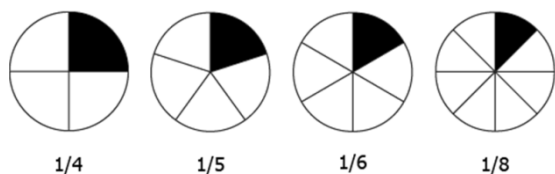
**MA.3.A.1.3**

1. Alexa's mother is helping her bake cookies for a girl scouts meeting. There are 9 girls in Alexa's girl scouts troop, and she wants each girl to get 4 cookies. Which equation will help Alexa figure out how many cookies to bake?

- A.  $9 \div \underline{\quad} = 4$
- B.  $9 \times 4 =$
- C.  $4 \times \underline{\quad} = 9$
- D.  $9 \div 4 = \underline{\quad}$

**MA.3.A.2.3**

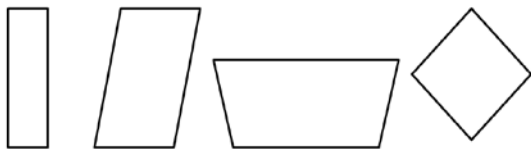
2. The circles shown below are all the same size. Each circle is divided into equal parts, with one part of each circle shaded in. Which of the following inequalities correctly compares the shaded parts of the circles?



- A.  $\frac{1}{6} < \frac{1}{8}$
- B.  $\frac{1}{6} > \frac{1}{8}$
- C.  $\frac{1}{5} > \frac{1}{4}$
- D.  $\frac{1}{4} < \frac{1}{5}$

**MA.3.G.3.1**

3. Diana drew the four shapes below.

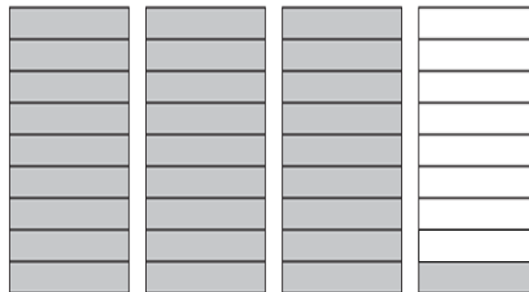


Which of the following is true about the shapes?

- A. Each shape has exactly two pairs of parallel sides.
- B. Each shape has exactly five vertices.
- C. Each shape is a regular polygon.
- D. Each shape is a quadrilateral.

**MA.3.A.2.4**

4. In the picture below,  $3\frac{1}{9}$  of the objects are shaded.

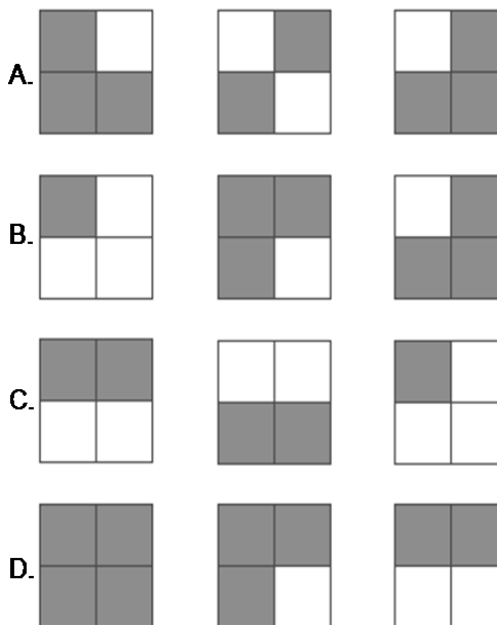


Which fraction is equivalent to  $3\frac{1}{9}$ ?

- A.  $\frac{28}{4}$
- B.  $\frac{28}{7}$
- C.  $\frac{28}{8}$
- D.  $\frac{28}{9}$

**MA.3.A.2.1**

5. Vanessa is coloring a drawing by shading in parts of three figures. Which of the following choices represents 2 shaded figures?





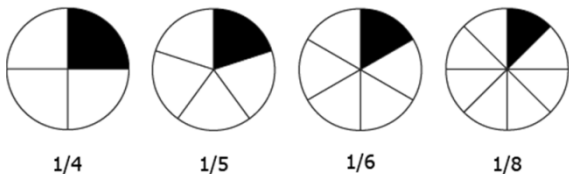
**MA.3.A.1.3**

1. Eli earns \$24 helping his father with yard work. If Eli earns \$3.00 per hour, which equation will help him figure out how many hours he worked?

- A.  $24 \div \underline{\quad} = 8$
- B.  $24 \div \underline{\quad} = 3$
- C.  $3 \times \underline{\quad} = 8$
- D.  $24 \times 3 = \underline{\quad}$

**MA.3.A.2.3**

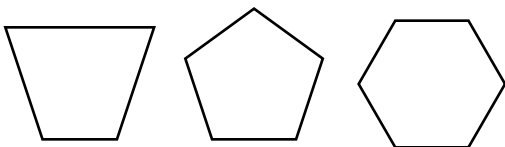
2. The circles shown below are all the same size. Each circle is divided into equal parts, with one part of each circle shaded in. Which of the following inequalities correctly compares the shaded parts of the circles?



- A.  $\frac{1}{8} > \frac{1}{4}$
- B.  $\frac{1}{4} < \frac{1}{6}$
- C.  $\frac{1}{4} > \frac{1}{5}$
- D.  $\frac{1}{4} < \frac{1}{5}$

**MA.3.G.3.1**

3. Diana drew the three shapes below.



Which of the following is true about the shapes?

- A. Each shape has exactly two pairs of parallel sides.
- B. Each shape has exactly five vertices.
- C. Each shape is a regular polygon.
- D. Each shape is a quadrilateral.

**MA.3.A.2.4**

4. In the picture below,  $2\frac{8}{9}$  of the objects are shaded.

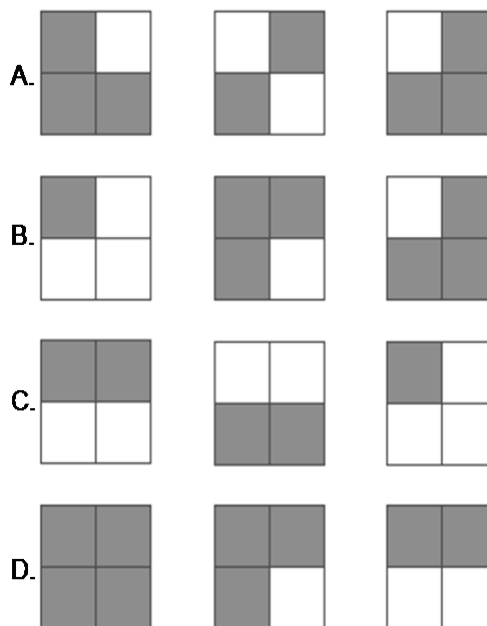


Which fraction is equivalent to  $2\frac{8}{9}$ ?

- A.  $\frac{26}{4}$
- B.  $\frac{26}{9}$
- C.  $\frac{26}{8}$
- D.  $\frac{26}{7}$

**MA.3.A.2.1**

5. Vanessa is coloring a drawing by shading in parts of three figures. Which of the following choices represents  $2\frac{1}{4}$  shaded figures?



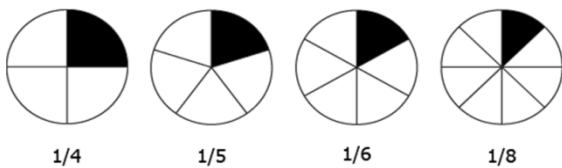
**MA.3.A.1.3**

1. As part of a homework assignment, Ellen is solving some multiplication problems. Her answer for the first problem is  $7 \times 4 = 28$ . Which equation will help Ellen check her answer?

- A.  $4 \times 28 = 7$
- B.  $7 \div 4 = 28$
- C.  $7 \times 28 = 4$
- D.  $28 \div 7 = 4$

**MA.3.A.2.3**

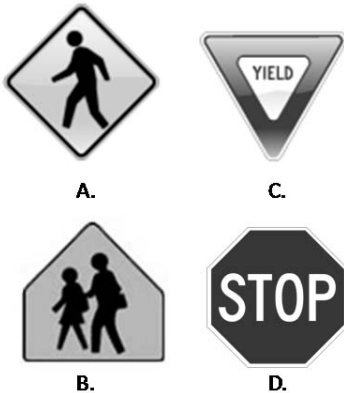
2. The circles shown below are all the same size. Each circle is divided into equal parts, with one part of each circle shaded in. Which of the following inequalities correctly compares the shaded parts of the circles?



- A.  $\frac{1}{6} > \frac{1}{5} > \frac{1}{4}$
- B.  $\frac{1}{4} < \frac{1}{8} < \frac{1}{6}$
- C.  $\frac{1}{6} < \frac{1}{5} < \frac{1}{4}$
- D.  $\frac{1}{6} > \frac{1}{8} > \frac{1}{5}$

**MA.3.G.3.1**

3. Which traffic sign is in the shape of an octagon?



**MA.3.A.2.4**

4. Alex skateboards to basketball practice three days a week. He passes the firehouse when he has traveled  $\frac{1}{2}$  of the distance between the basketball court and his school.

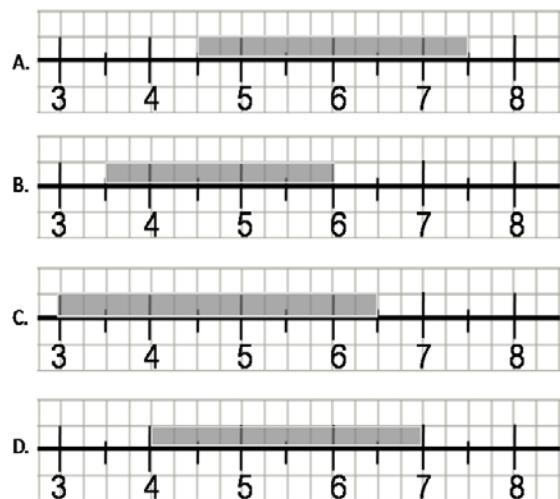


Which fraction is equal to  $\frac{1}{2}$ ?

- A.  $\frac{3}{8}$
- B.  $\frac{8}{4}$
- C.  $\frac{2}{1}$
- D.  $\frac{4}{8}$

**MA.3.A.2.1**

5. Which of these number lines has a highlighted length of  $2\frac{1}{2}$ ?



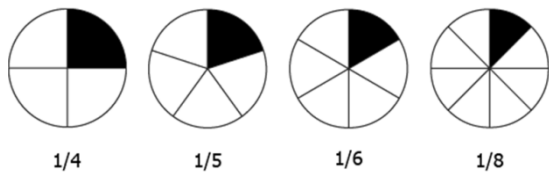
**MA.3.A.1.3**

1. Lauren wants to plant a vegetable garden in her backyard. She has enough space to grow 18 rows of plants. She has chosen 6 different vegetables that she wants to grow. Which equation will help Lauren figure out how many rows of each vegetable she should plant?

- A.  $\_\_ \div 6 = 18$
- B.  $6 \times 18 = \_\_$
- C.  $18 \div 6 = \_\_$
- D.  $18 \times \_\_ = 6$

**MA.3.A.2.3**

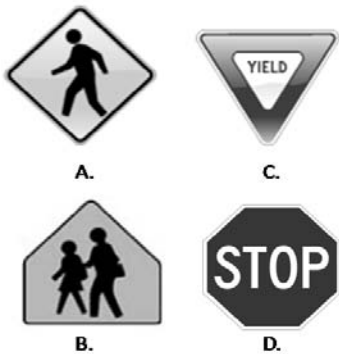
2. The circles shown below are all the same size. Each circle is divided into equal parts, with one part of each circle shaded in. Which of the following inequalities correctly compares the shaded parts of the circles?



- A.  $\frac{1}{6} > \frac{1}{5} > \frac{1}{4}$
- B.  $\frac{1}{4} < \frac{1}{8} < \frac{1}{6}$
- C.  $\frac{1}{4} > \frac{1}{6} > \frac{1}{8}$
- D.  $\frac{1}{6} > \frac{1}{8} > \frac{1}{5}$

**MA.3.G.3.1**

3. Which traffic sign is in the shape of a rhombus?



**MA.3.A.2.4**

4. Alex skateboards to basketball practice three days a week. He passes the firehouse when he has traveled  $\frac{1}{2}$  of the distance between the basketball court and his school.

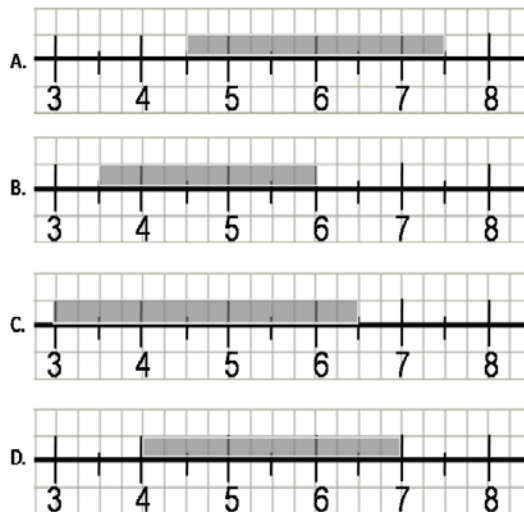


Which fraction is equal to  $\frac{1}{2}$ ?

- A.  $\frac{6}{10}$
- B.  $\frac{10}{5}$
- C.  $\frac{5}{10}$
- D.  $\frac{4}{10}$

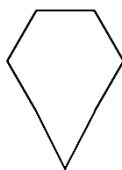
**MA.3.A.2.1**

5. Which of these number lines has a highlighted length of  $3\frac{1}{2}$ ?



**MA.3.G.3.2**

1. Becky noticed a figure like the one shown below on a billboard.

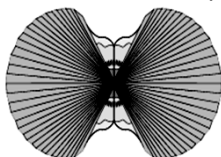


Which set of shapes could be put together, without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?

- A.
- B.
- C.
- D.

**MA.3.G.3.3**

2. The drawing below shows an open scallop shell.



How many lines of symmetry does the drawing have?

- A. 3
- B. 2
- C. 1
- D. 0

**MA.3.A.4.1**

3. Dorian is making a border for his bedroom wall using the pattern below.

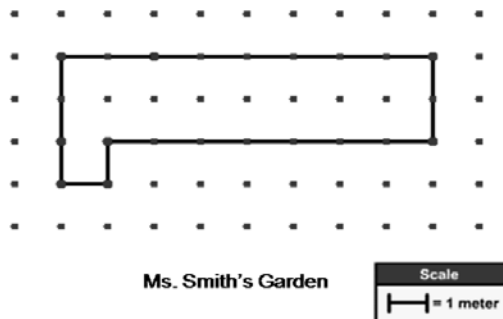


What is the next figure in his pattern?

- A.
- B.
- C.
- D.

**MA.3.G.5.1**

4. Ms. Smith’s class is going to have a fence put up to protect their vegetable garden.

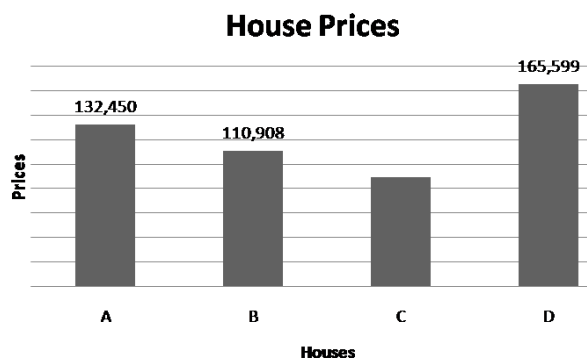


How many meters of fencing will they need?

- A. 20 meters
- B. 21 meters
- C. 22 meters
- D. 24 meters

**MA.3.A.6.1**

5. The James family is shopping for houses. The bars in the graph below show prices for four houses, labeled A, B, C, and D. Which choice is the best estimate of the price for house C?



- A. 170,000
- B. 130,000
- C. 110,000
- D. 90,000

**MA.3.G.3.2**

1. Becky noticed a figure like the one shown below on a billboard.



Which set of shapes could be put together, without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?

- A.
- B.
- C.
- D.

**MA.3.G.3.3**

2. The Hindus in India had number symbols before the Romans used letters for numbers. The symbol for the number 4 is shown below.



How many lines of symmetry does the Hindu symbol for 4 have?

- A. 3
- B. 2
- C. 1
- D. 0

**MA.3.A.4.1**

3. Dorian is making a border for his bedroom wall using the pattern below.

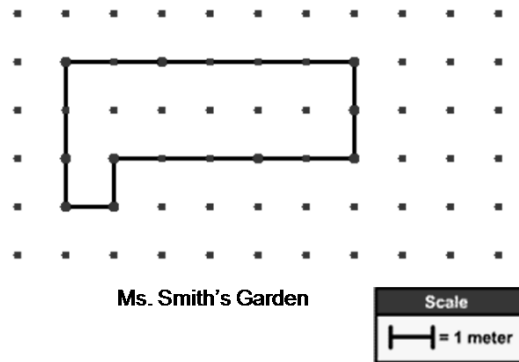


What is the next figure in his pattern?

- A.
- B.
- C.
- D.

**MA.3.G.5.1**

4. Ms. Smith’s class is going to have a fence put up to protect their vegetable garden.

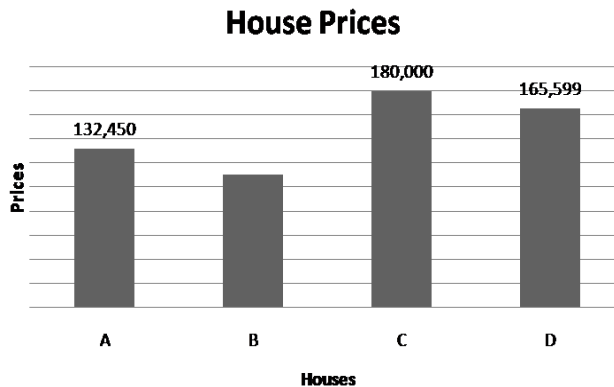


How many meters of fencing will they need?

- A. 15 meters
- B. 18 meters
- C. 19 meters
- D. 20 meters

**MA.3.A.6.1**

5. The James family is shopping for houses. The bars in the graph below show prices for four houses, labeled A, B, C, and D. Which choice is the best estimate of the price for house B?



- A. 180,000
- B. 170,000
- C. 140,000
- D. 110,000

**MA.3.G.3.2**

1. Becky noticed a figure like the one shown below on a billboard.



Which set of shapes could be put together; without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?

- A.   
 B.   
 C.   
 D.

**MA.3.G.3.3**

2. Which letter does NOT have a line of symmetry?



A.



C.



B.



D.

**MA.3.A.4.1**

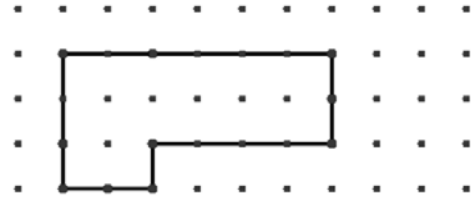
3. Use the table to below to find the missing number. What number will complete the pattern?

3	4	7
3	2	?
6	6	12

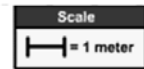
- A. 1  
 B. 2  
 C. 3  
 D. 5

**MA.3.G.5.1**

4. Ms. Smith’s class is going to have a fence put up to protect their vegetable garden.



Ms. Smith’s Garden



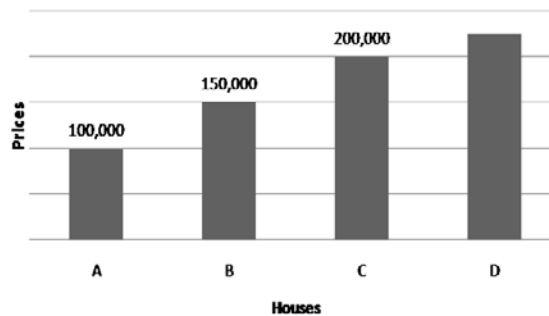
How many meters of fencing will they need?

- A. 20 meters  
 B. 19 meters  
 C. 18 meters  
 D. 15 meters

**MA.3.A.6.1**

5. The James family is shopping for houses. The bars in the graph below show prices for four houses, labeled A, B, C, and D. Which choice is the best estimate of the price for house D?

House Prices



- A. 90,000  
 B. 150,000  
 C. 200,000  
 D. 225,000

**MA.3.G.3.2**

1. Becky noticed a figure like the one shown below on a billboard.

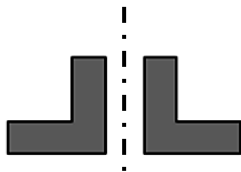


Which set of shapes could be put together; without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?

- A.   
 B.   
 C.   
 D.

**MA.3.G.3.3**

2. Look at the figures below.



The figures show an example of a \_\_\_\_\_.

- A. rotation (turn)  
 B. reflection (flip)  
 C. translation (slide)  
 D. symmetry

**MA.3.A.4.1**

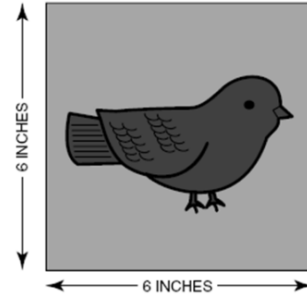
3. Use the table below to find the missing number. What number will complete the pattern?

5	2	7
3	6	?
8	8	16

- A. 7  
 B. 8  
 C. 9  
 D. 11

**MA.3.G.5.1**

4. Ramon’s art class is making a quilt. Each student was given a piece of fabric to decorate. Each piece of fabric is 6 inches long by 6 inches wide.

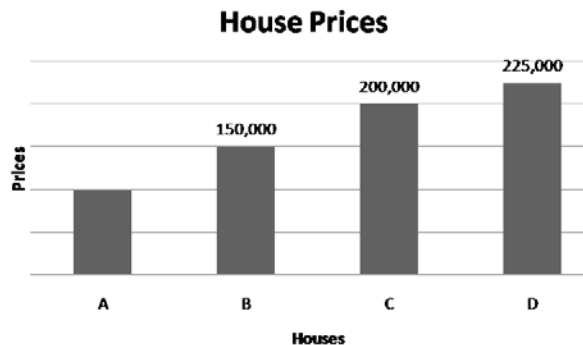


What is the perimeter of each piece of fabric?

- A. 12 inches  
 B. 18 inches  
 C. 24 inches  
 D. 36 inches

**MA.3.A.6.1**

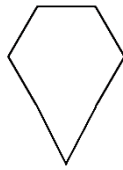
5. The James family is shopping for houses. The bars in the graph below show prices for four houses, labeled A, B, C, and D. Which choice is the best estimate of the price for house D?



- A. 100,000  
 B. 150,000  
 C. 200,000  
 D. 250,000

**MA.3.G.3.2**

1. Becky noticed a figure like the one shown below on a billboard.

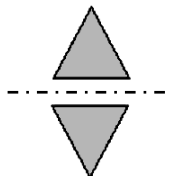


Which set of shapes could be put together; without overlapping, to make a figure that looks exactly the same as the figure Becky noticed on the billboard?

- A.
- B.
- C.
- D.

**MA.3.G.3.3**

2. The figures below show an example of a \_\_\_\_\_.



- A. rotation (turn)
- B. reflection (flip)
- C. translation (slide)
- D. symmetry

**MA.3.A.4.1**

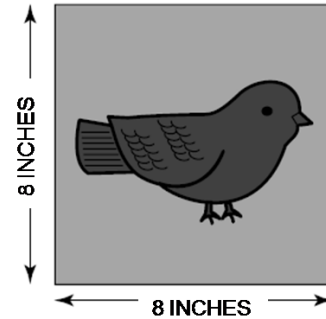
3. Use the table to below to find the missing number. What number will complete the pattern?

5	1	6
2	6	?
7	7	14

- A. 7
- B. 8
- C. 9
- D. 11

**MA.3.G.5.1**

4. Ramon’s art class is making a quilt. Each student was given a piece of fabric to decorate. Each piece of fabric is 8 inches long by 8 inches wide.

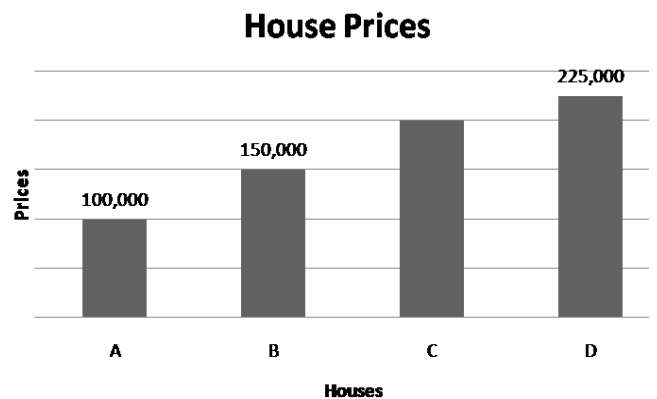


What is the perimeter of each piece of fabric?

- A. 16 inches
- B. 20 inches
- C. 24 inches
- D. 32 inches

**MA.3.A.6.1**

5. The James family is shopping for houses. The bars in the graph below show prices for four houses, labeled A, B, C, and D. Which choice is the best estimate of the price for house D?



- A. 100,000
- B. 150,000
- C. 200,000
- D. 250,000



**MA.3.A.1.2**

1. Tom received 9 baseball cards from each of his 4 aunts for his birthday. He also received 3 cards from his dad. The expression below represents the total number of baseball cards Tom has.

$$(4 \times 9) + 3$$

Which expression below also represents the total number of baseball cards Tom has?

- A.  $(9 \times 3) + (4 \times 9)$
- B.  $(4 \times 3) + 9$
- C.  $4 \times (3 + 9)$
- D.  $3 + (9 \times 4)$

**MA.3.A.4.1**

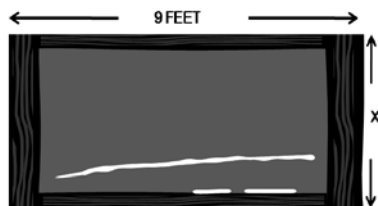
2. The numbers in the pattern 76, 71, 66, 61 . . . are shaded on the 100 chart, shown below. What is the rule to find the number that comes after 61 in this pattern?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- A. subtract 5
- B. subtract 10
- C. add 5
- D. add 10

**MA.3.G.5.1**

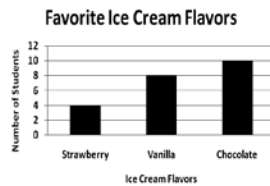
3. The perimeter of a chalkboard is 30 feet, as show below. The length of the chalkboard is 9 feet. What is the width?



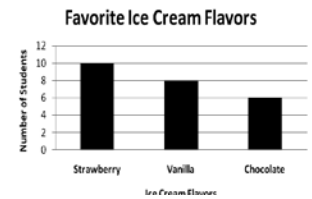
- A. 30
- B. 18
- C. 9
- D. 6

**MA.3.S.7.1**

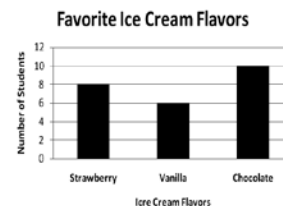
4. Twenty-six students were asked to name their favorite flavor of ice cream: 10 chose chocolate, 8 chose strawberry, and 8 chose vanilla. Which graph shows this information?



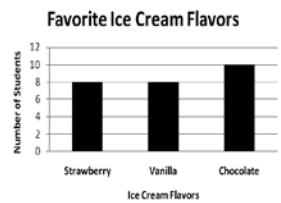
A.



C.



B.



D.

**MA.3.G.3.2**

5. The figure below can be divided into which of the following sets of shapes?



A.



C.



B.



D.

**MA.3.A.1.2**

1. At her lemonade stand, Judy sold 7 cups of lemonade for 6 cents each. She then sold 5 cookies for 8 cents each. She can use the expression below to figure out how much money she earned.

$$(7 \times 6) + (5 \times 8)$$

Which expression also correctly shows the total amount Judy earned?

- A.  $7 \times (6 + 5) \times 8$
- B.  $8 \times (7 \times 6) + 5$
- C.  $(8 \times 5) + (6 \times 7)$
- D.  $(7 \times 6 + 5) \times 8$

**MA.3.A.4.1**

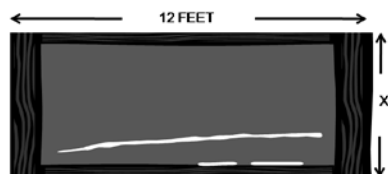
2. The numbers in the pattern 61, 66, 71, 76 . . . are shaded on the 100 chart, shown below. What is the rule to find the number that comes after 76 in this pattern?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- A. subtract 5
- B. subtract 10
- C. add 5
- D. add 10

**MA.3.G.5.1**

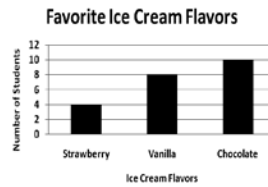
3. The perimeter of a chalkboard is 42 feet, as show below. The length of the chalkboard is 12 feet. What is the width?



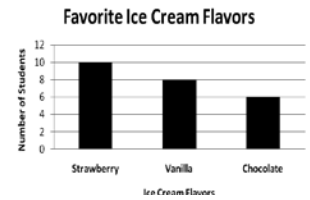
- A. 30
- B. 18
- C. 9
- D. 6

**MA.3.S.7.1**

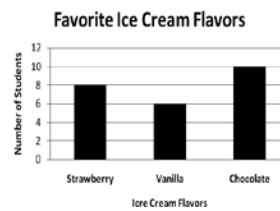
4. Twenty-two students were asked to name their favorite flavor of ice cream: 10 chose chocolate, 4 chose strawberry, and 8 chose vanilla. Which graph shows this information?



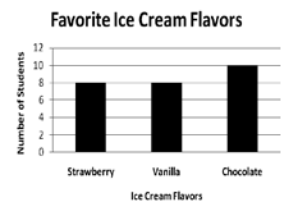
A.



C.



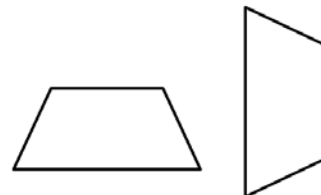
B.



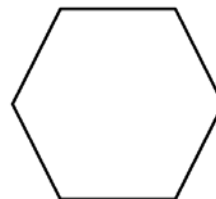
D.

**MA.3.G.3.2**

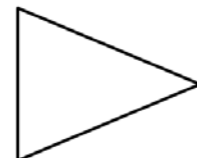
5. Tom has two building blocks. The shapes of the blocks are shown below.



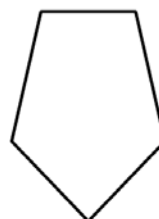
Which of the following figures can Tom make by combining the blocks, without overlapping?



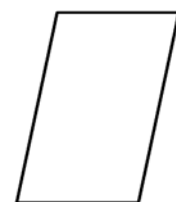
A.



C.



B.



D.

**MA.3.A.1.2**

1. Rose is helping bake cookies for the school festival. She can bake 6 chocolate chip cookies at a time on the baking pan. She fills 4 pans before lunch and 3 pans after lunch. When she is done, Rose wants to figure out the total number of cookies she has baked. Which expression shows one way Rose can find her answer?

- A.  $(4 \times 6) \times (3 \times 6)$
- B.  $(4 \times 4) + (4 \times 5)$
- C.  $(4 \times 4) \times (4 \times 5)$
- D.  $(4 \times 6) + (3 \times 6)$

**MA.3.A.4.1**

2. The numbers in the pattern 100, 90, 80, 70 . . . are shaded on the 100 chart, shown below. What is the rule to find the number that comes after 70 in this pattern?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- A. subtract 5
- B. subtract 10
- C. add 5
- D. add 10

**MA.3.G.5.1**

3. Ida’s mother made a large rectangular poster for the school Jog-a-thon.

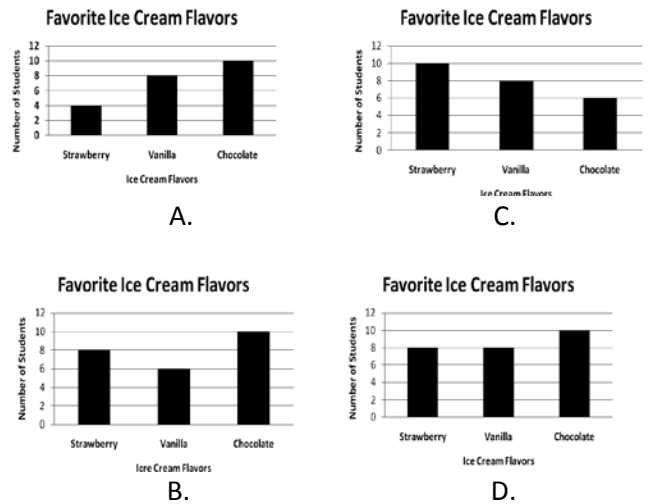


What is the perimeter of the poster?

- A. 16 feet
- B. 22 feet
- C. 26 feet
- D. 32 feet

**MA.3.S.7.1**

4. Twenty-four students were asked to name their favorite flavor of ice cream: 10 chose chocolate, 8 chose strawberry, and 6 chose vanilla. Which graph shows this information?

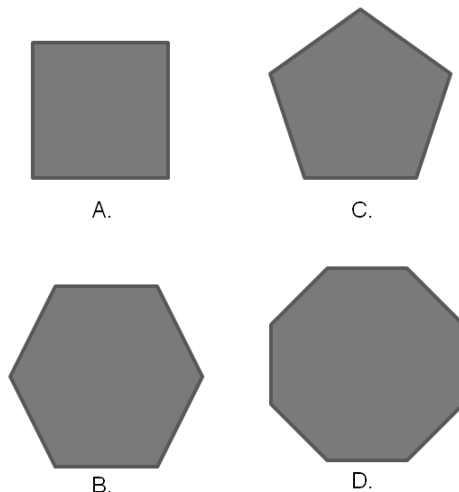


**MA.3.G.3.2**

5. Sue has 3 cardboard cutouts, shown below.



Which of the following figures can she make by combining the cutouts, without overlapping?



**MA.3.A.1.2**

1. Margie went shopping for school clothes four times this year. Each time she bought 2 pairs of jeans and 3 shirts. Below is one way Margie can find the total number of clothing items bought for school during the year.

$$4 \times (2 + 3)$$

Which expression below also represents the total number of clothing items Margie bought for school?

- A.  $0 \times (2 + 3) + 2 \times (2 + 3)$
- B.  $(2 + 3) \times (2 + 3) \times (2 + 3) \times (2 + 3)$
- C.  $(2 \times 4) + (3 \times 4)$
- D.  $2 \times (4 \times 3)$

**MA.3.A.4.1**

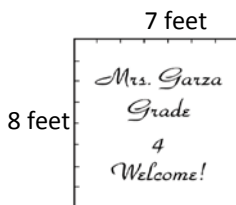
2. Using the pattern shown in the chart below, if Kate puts the number 6 in, what number comes out?

In	Out
0	6
1	7
2	8
3	9

- A. 10
- B. 11
- C. 12
- D. 13

**MA.3.G.5.1**

3. Ms. Garza wanted to make a border for her bulletin board. She marked the board to help her figure out the perimeter of the board.

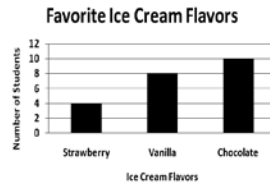


What is the perimeter, in feet, of Ms. Garza's bulletin board?

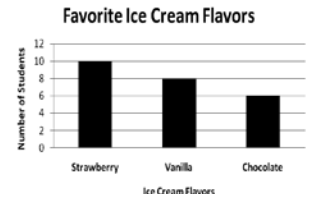
- A. 15 feet
- B. 30 feet
- C. 54 feet
- D. 56 feet

**MA.3.S.7.1**

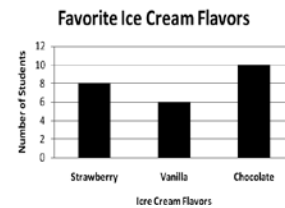
4. Twenty-four students were asked to name their favorite flavor of ice cream: 6 chose chocolate, 10 chose strawberry, and 8 chose vanilla. Which graph shows this information?



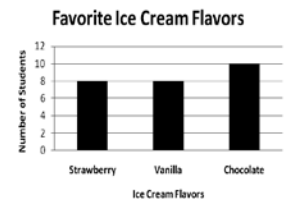
A.



C.



B.



D.

**MA.3.G.3.2**

5. The figure shown below can be broken down into which of the following shapes?



- A. two hexagons
- B. a triangle and a rectangle
- C. rectangle and a hexagon
- D. two triangles

**MA.3.A.1.2**

1. When multiplying 6 and 3, which choice would NOT provide a correct answer?
- A.  $6 \times (2 + 1)$
  - B.  $3 \times (3 + 3)$
  - C.  $(6 \times 2) + 4$
  - D.  $(6 \times 2) + 6$

**MA.3.A.4.1**

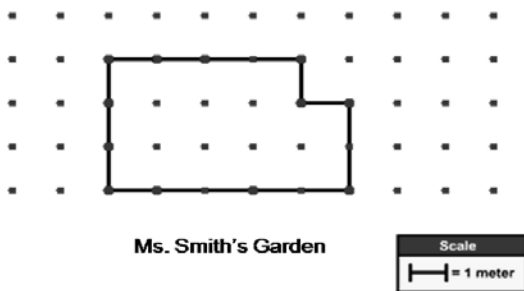
2. Using the pattern shown in the chart below, if Kate puts the number 8 in, what number comes out?

In	Out
0	0
2	6
4	12
6	18

- A. 20
- B. 24
- C. 30
- D. 36

**MA.3.G.5.1**

3. Ms. Smith’s class is going to have a fence put up to protect their vegetable garden.



How many meters of fencing will they need?

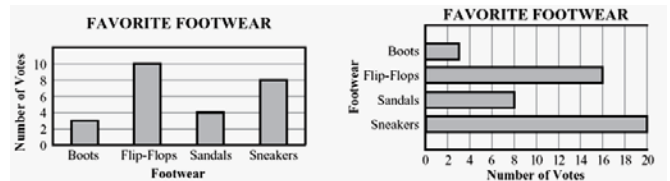
- A. 20 meters
- B. 19 meters
- C. 18 meters
- D. 16 meters

**MA.3.S.7.1**

4. The students in Mrs. Livingston’s class voted for their favorite food. The number of votes are shown on the table below.

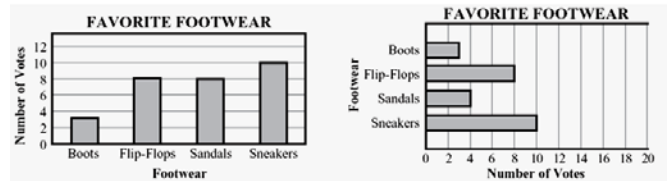
Footwear	Boots	Flip-Flops	Sandals	Sneakers
Number of Votes	3	16	8	20

Which bar graph correctly shows the number of votes on the table?



A.

C.



B.

D.

**MA.3.G.3.2**

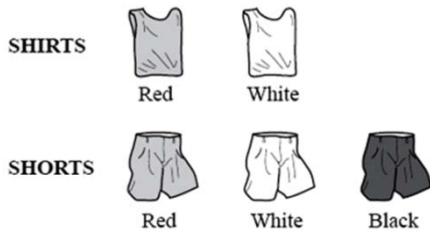
5. Jose cut out the figure shown below from a piece of construction paper. Into which of the following sets of shapes can he divide the figure?



- A.
- B.
- C.
- D.

**MA.3.A.1.1**

1. The Eagles soccer team’s uniform consists of either a red or white shirt, and either red, white, or black shorts.



How many different uniform combinations are possible?

- A. 2
- B. 5
- C. 6
- D. 8

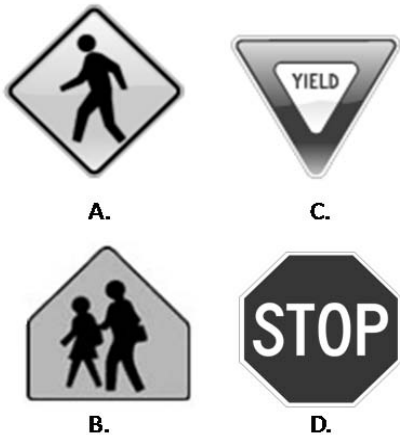
**MA.3.A.6.1**

2. Kate and John were counting the number of days that they have been in school since kindergarten. Kate counted 7,342 days. John counted 8,945 days. Which of the following numbers is between Kate's count and John's count?

- A. 6,989
- B. 7,234
- C. 8,459
- D. 8,946

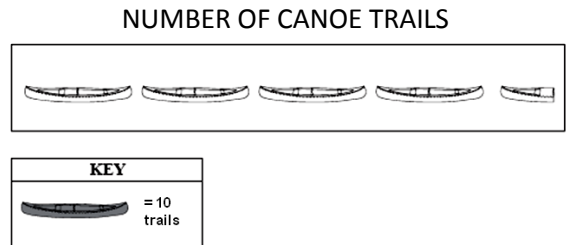
**MA.3.G.3.1**

3. Which traffic sign is in the shape of a triangle?



**MA.3.S.7.1**

4. People can explore Florida in a canoe. The pictograph below shows the number of canoe trails in the state.

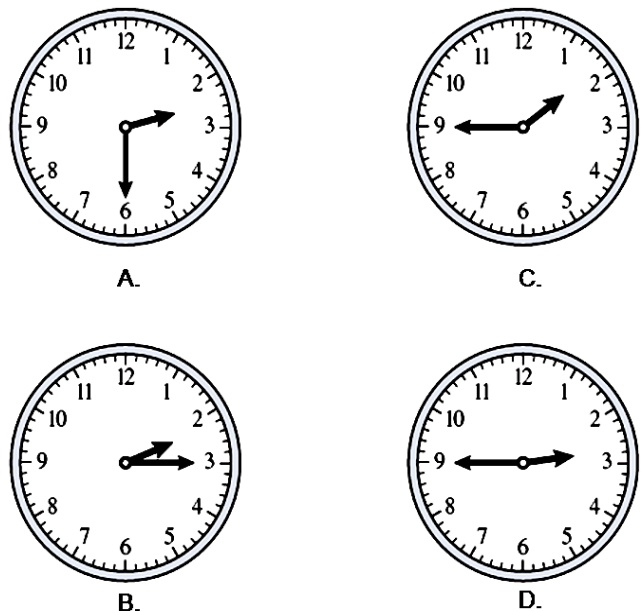


How many canoe trails are there in Florida?

- A. 4
- B. 8
- C. 32
- D. 45

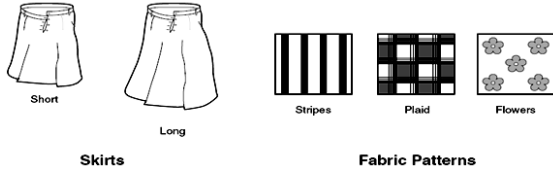
**MA.3.G.5.3**

5. Brandon and Donte played dominoes. They started playing at 1:15 p.m. They played dominoes for 1 hour and 30 minutes. Which of the following shows the time they finished playing dominoes?



**MA.3.A.1.1**

1. Shelly is ordering a skirt from a catalog. She can choose one of two lengths: a short skirt or a long skirt. Then she can choose one of three fabric patterns: stripes, plaid, or flowers.



How many different skirts could Shelley order choosing a length and a fabric pattern?

- A. 2
- B. 3
- C. 5
- D. 6

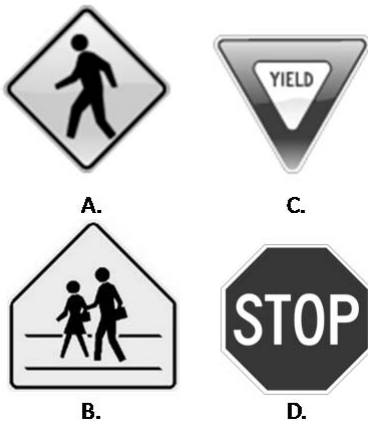
**MA.3.A.6.1**

2. Kate and John were counting the number of days that they have been in school since kindergarten. Kate counted 8,342 days. John counted 9,945 days. Which of the following numbers is between Kate's count and John's count?

- A. 7,989
- B. 8,234
- C. 8,345
- D. 9,946

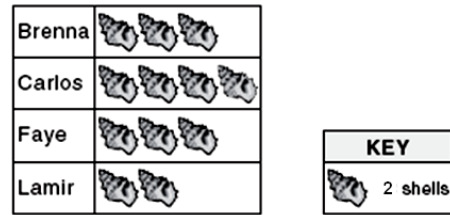
**MA.3.G.3.1**

3. Which traffic sign is in the shape which has five angles?



**MA.3.S.7.1**

4. Brenna, Carlos, Faye, and Lamir found shells while they were at the beach. The graph shows the number of shells each of them found.

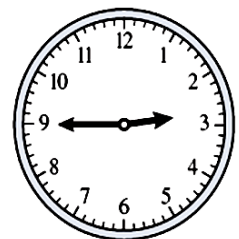
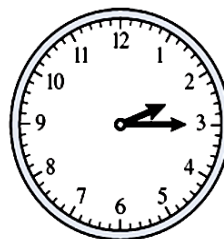
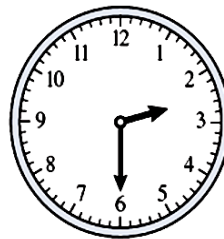


How many shells did Brenna and Faye find all together?

- A. 36
- B. 12
- C. 9
- D. 6

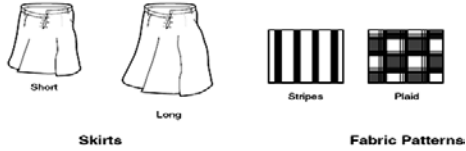
**MA.3.G.5.3**

5. Brandon and Donte played dominoes. They started playing at 1:15 p.m. They played dominoes for 1 hour and 15 minutes. Which of the following shows the time they finished playing dominoes?



**MA.3.A.1.1**

1. Shelly is ordering a skirt from a catalog. She can choose one of two lengths: a short skirt or a long skirt. Then she can choose one of two fabric patterns: stripes or a plaid.



How many different skirts could Shelley order choosing a length and a fabric pattern?

- A. 2
- B. 4
- C. 6
- D. 9

**MA.3.A.6.1**

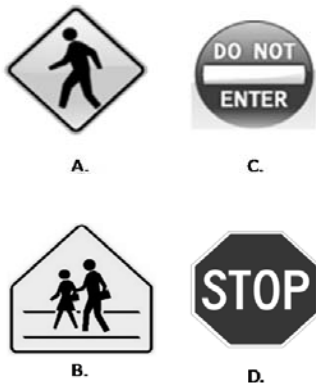
2. A crew is planning to load cargo onto the container ship Colombo Express. The table below shows the weights of different types of cargo being loaded onto the Colombo Express. Which is the best estimate of the total weight the crew is loading onto the Colombo Express?

Cargo Manifest for the Colombo Express	
Name	Weight
Coffee	1,345 tons
Flour	2,684 tons
Grains	6,712 tons
Sugar	3,517 tons
Fibers	7,851 tons

- A. 23,000 tons
- B. 24,000 tons
- C. 25,000 tons
- D. 26,000 tons

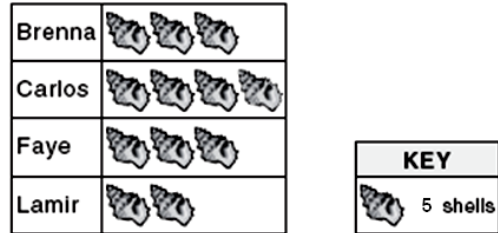
**MA.3.G.3.1**

3. The shape of which street sign is NOT a polygon?



**MA.3.S.7.1**

4. Brenna, Carlos, Faye, and Lamir found shells while they were at the beach. The graph shows the number of shells each of them found.

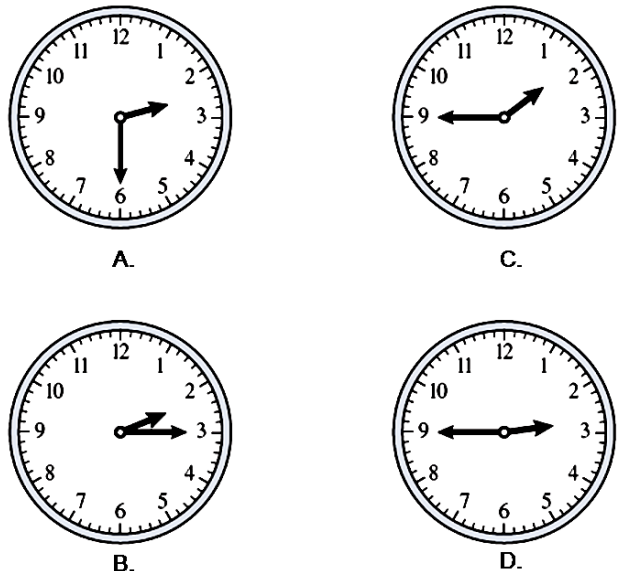


How many shells did Brenna and Faye find altogether?

- A. 36
- B. 30
- C. 20
- D. 16

**MA.3.G.5.3**

5. Brandon and Dionte played dominoes. They started playing at 3:30 p.m. They arrived 1 hour and 15 minutes before they started playing. Which of the following shows the time they arrived?





**MA.3.A.1.1**

1. A third grade class raised money to buy a class pet. There were 20 students in the class. Each student raised 4 dollars.

Which of the following could be used to find out how much money all of the students raised altogether?

- A.  $20 + 4$                       C.  $20 \times 4$   
B.  $20 - 4$                       D.  $20 \div 4$

**MA.3.A.6.1**

2. A crew is planning to load cargo onto the container ship Colombo Express. The table below shows the weights of different types of cargo being loaded onto the Colombo Express. Which is the best estimate of the total weight the crew is loading onto the Colombo Express?

Cargo Manifest for the Colombo Express	
Name	Weight
Coffee	1,545 tons
Flour	2,584 tons
Grains	6,612 tons
Sugar	3,717 tons
Fibers	7,551 tons

- A. 22,000 tons                      C. 25,000 tons  
B. 24,000 tons                      D. 26,000 tons

**MA.3.G.3.1**

3. The soccer ball is covered with two kinds of polygons.

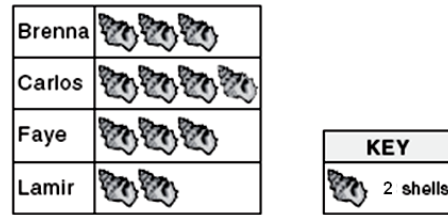


What shape are the shaded polygons?

- A. hexagon  
B. octagon  
C. pentagon  
D. rectangle

**MA.3.S.7.1**

4. Brenna, Carlos, Faye, and Lamir found shells while they were at the beach. The graph shows the number of shells each of them found.

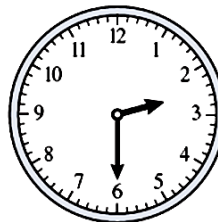


How many shells did Brenna, Carlos and Faye find altogether?

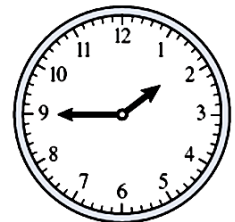
- A. 20  
B. 10  
C. 9  
D. 6

**MA.3.G.5.3**

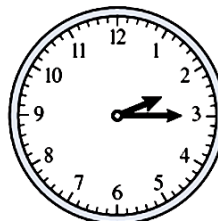
5. Brandon and Dionte played dominoes. They started playing at 2:15 p.m. They arrived 30 minutes before they started playing. Which of the following shows the time they arrived?



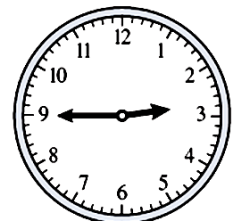
A.



C.



B.



D.

**MA.3.A.1.1**

1. A third grade class raised money to buy a class pet. There were 24 students in the class. Each student raised 8 dollars.

Which of the following could be used to find out how much money all of the students raised all together?

- A.  $24 \times 8$
- B.  $24 \div 8$
- C.  $24 + 8$
- D.  $24 - 8$

**MA.3.A.6.1**

2. A crew is planning to load cargo onto the container ship Colombo Express. The table below shows the weights of different types of cargo being loaded onto the Colombo Express. Which is the best estimate of the total weight the crew is loading onto the Colombo Express?

Cargo Manifest for the Colombo Express	
Name	Weight
Coffee	2,545 tons
Flour	2,584 tons
Grains	6,612 tons
Sugar	3,717 tons
Fibers	8,551 tons

- A. 22,000 tons
- B. 24,000 tons
- C. 26,000 tons
- D. 28,000 tons

**MA.3.G.3.1**

3. The soccer ball is covered with two kinds of polygons.



What shape are the non-shaded polygons?

- A. hexagon
- B. octagon
- C. pentagon
- D. rectangle

**MA.3.S.7.1**

4. Brenna, Carlos, Faye, and Lamir found shells while they were at the beach. The graph shows the number of shells each of them found.

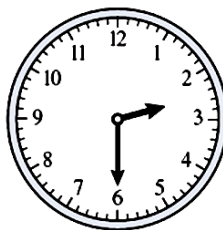


How many shells did Brenna, Carlos and Faye find altogether?

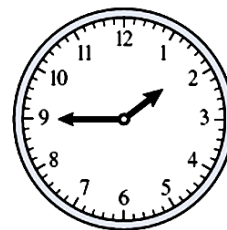
- A. 10
- B. 20
- C. 30
- D. 50

**MA.3.G.5.3**

5. Brandon and Dionte played dominoes. They started playing at 1:00 p.m. They played dominoes for 1 hour and 15 minutes. Which of the following shows the time they finished playing dominoes?



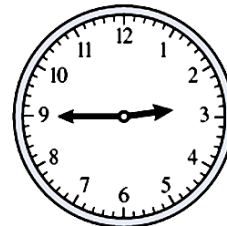
A.



C.



B.



D.

*Grade 3*  
*Answer Key*  
*to*  
*40-Day Math Countdown*

Week 1 - Grade 3					
	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
1	B	C	D	A	A
2	A	D	B	D	C
3	C	B	D	B	C
4	C	B	D	D	C
5	D	A	C	B	C

Week 2 - Grade 3					
	DAY 6	DAY 7	DAY 8	DAY 9	DAY 10
1	D	A	B	B	C
2	A	B	C	A	C
3	C	A	D	C	C
4	B	A	D	C	A
5	B	D	D	B	B

Week 3 - Grade 3					
	DAY 11	DAY 12	DAY 13	DAY 14	DAY 15
1	A	B	B	D	C
2	D	A	C	B	A
3	B	B	A	D	B
4	B	A	C	A	B
5	C	B	D	D	B

Week 4 - Grade 3					
	DAY 16	DAY 17	DAY 18	DAY 19	DAY 20
1	B	D	D	C	D
2	A	B	D	D	B
3	C	B	A	D	D
4	B	A	C	A	B
5	C	C	B	D	D

<b>Week 5 - Grade 3</b>					
	<b>DAY 21</b>	<b>DAY 22</b>	<b>DAY 23</b>	<b>DAY 24</b>	<b>DAY 25</b>
1	D	B	B	D	C
2	A	B	C	C	C
3	C	D	C	D	A
4	C	D	B	D	C
5	C	A	D	B	C

<b>Week 6 - Grade 3</b>					
	<b>DAY 26</b>	<b>DAY 27</b>	<b>DAY 28</b>	<b>DAY 29</b>	<b>DAY 30</b>
1	C	A	B	B	A
2	B	C	D	B	B
3	C	C	D	C	B
4	C	B	C	C	D
5	D	D	D	A	C

<b>Week 7 - Grade 3</b>					
	<b>DAY 31</b>	<b>DAY 32</b>	<b>DAY 33</b>	<b>DAY 34</b>	<b>DAY 35</b>
1	D	C	D	C	C
2	A	C	B	C	B
3	D	C	D	B	D
4	D	A	B	C	C
5	C	A	B	D	A

<b>Week 8 - Grade 3</b>					
	<b>DAY 36</b>	<b>DAY 37</b>	<b>DAY 38</b>	<b>DAY 39</b>	<b>DAY 40</b>
1	C	D	B	C	A
2	C	C	A	A	B
3	C	B	C	C	A
4	D	B	B	A	D
5	D	A	B	C	B