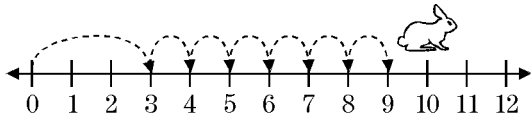


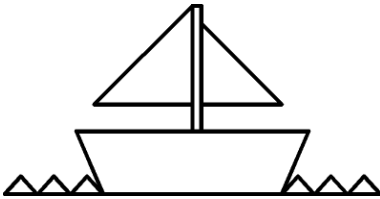
# CCSS Math Samples — Grade 1

1. Which number sentence does the picture show?



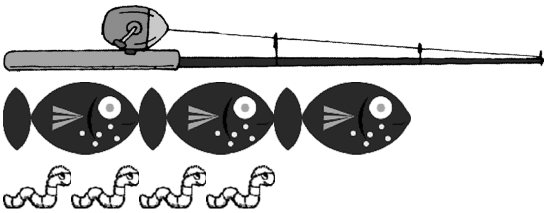
- $9 \div 3 = 3$   
  $3 + 6 = 9$   
  $9 - 6 = 3$

2. Rosanna drew a boat on water.



How many triangles are in the drawing?

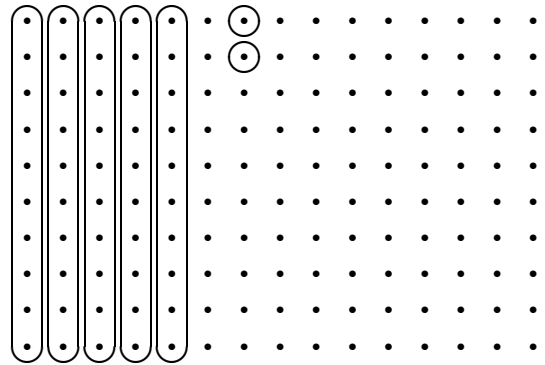
3. The fishing pole is 7 fish long.



How many worms long is the fishing pole?

- 8       12       14

4. Gwen used the dot grid to show a number.



What number is shown?

How many tens?

How many ones?

5. Tori had 7 keys in her hand. She placed 2 keys in a drawer.

How many keys does Tori have in her hand now?

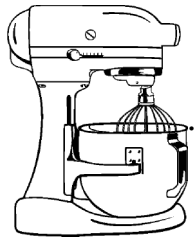
- $7 - 2 = \square$   
  $2 + 7 = \square$   
  $7 \div \square = 2$

6. Joseph has five rocks and 6 marbles in his pocket.

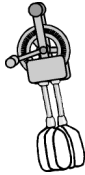
How many fewer rocks than marbles?

- 1       4       11

7. There are ten



There is one



There are six

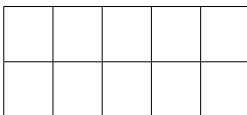


Which number sentence shows how many mixing tools in all?

- $2 + 6 + 4 = 12$
- $1 + 6 + 10 = 17$
- $1 + 6 + 10 = 16$

8. Raina drew thirteen hearts on the paper.

Build the number thirteen with ten frames.



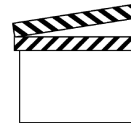
9. Kelly won 6 tickets. Tyler won 8 tickets. Mandy won 2 tickets. How many tickets did they win in all?

- 16 tickets
- 10 tickets
- 8 tickets

10. On the movie set there are 8



and 3



How many  and  on the movie set altogether?

11. Edwardo had 3 shells.

After his family went to the beach, he had 12 shells.

How many shells did Edwardo find at the beach?

- 6
- 7
- 9

12.

$5 + 7 = 7 + \underline{\quad}$

5

6

7

13. There were 11 bags of rice at the store. Then the store sold 6 bags of rice.

How many bags of rice are left at the store?

$11 + 6 = 17$

$11 - 6 = 5$

$6 + 5 = 11$

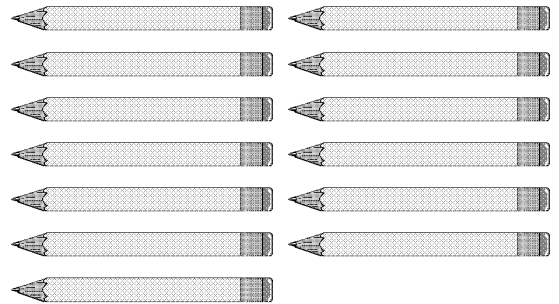
14. Jonathan had 17 coins in his collection. He was given 6 more coins. How many coins does he have now?

11

13

23

15. Juan had 13 pencils. He gave 5 of them to his friends. How many pencils does Juan have now?



18 pencils

9 pencils

8 pencils

16. 60 is the same as \_\_\_\_\_.

- 4 tens and 30 ones
- 5 tens and 10 ones
- 8 tens and 10 ones

17. Tim has 4 cards. John has 3 cards. Robert has 2 more cards than John. How many cards do the boys have altogether?

- 9 cards
- 11 cards
- 12 cards

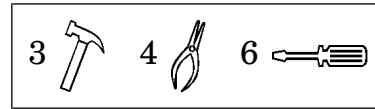
18. Grant counted 4 berries in the bowl.

After he added more, there were 17 berries in the bowl.

How many berries did Grant add?





- 13
- 15
- 16

19. John looked into his dad's tool chest. He saw 3 hammers, 4 pliers, and 6 screwdrivers. Which shows how many more screwdrivers he has than hammers?



- $3 + 6$
- $4 + 6$
- $6 - 3$

20. Mr. Briggs made a graph of footwear.

		
		
		
		
		
		
Tennis Shoes	Sandals	High heels

How many tennis shoes?

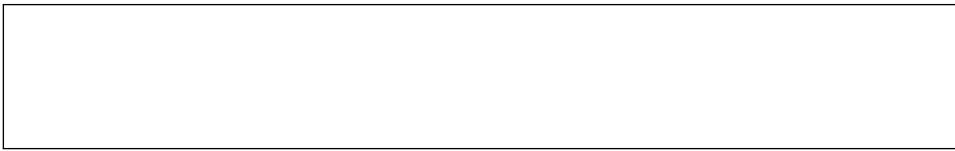
How many sandals?

Which footwear is the fewest in number?

The footwear must be grouped by twos. Can each kind be grouped by twos? Explain your thinking.

21. Mrs. Morrison has four gifts to wrap.

She wants to use equal-sized pieces of giftwrap.

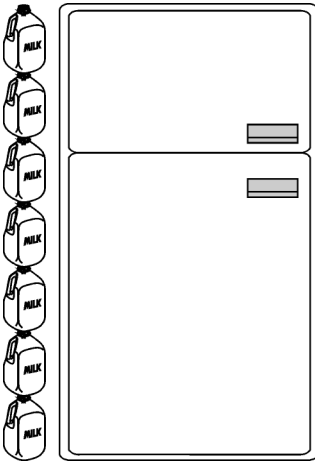


Draw lines to show the equal parts.

How many parts?

The name of each part is \_\_\_\_\_.

22. The refrigerator is \_\_\_\_\_ milk jugs tall.



3

5

7

23. Luis saw 9 boats on the lake.  
Luis saw six boats on the shore.  
How many boats did Luis see?

12 boats

15 boats

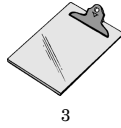
20 boats

24. Mr. Moss has 13 lamps and  
9 light bulbs.

How many more lamps than light  
bulbs?

25. Coach Williams brings supplies to coach the swim team.

He brings whistles, stopwatches, and clipboards.



How many supplies does Coach Williams bring altogether?

- 10       12       15

26. Kevin drew more than 6 rectangles but less than 8 rectangles.

How many rectangles did Kevin draw?

Draw some circles on your paper.

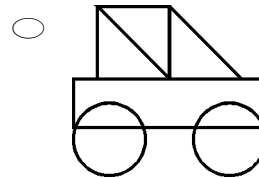
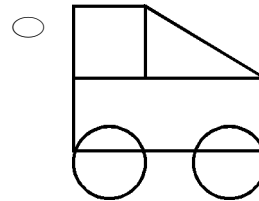
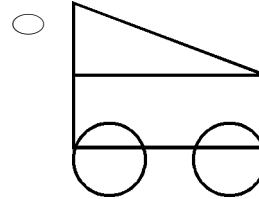
There are more than \_\_\_ circles.

There are less than \_\_\_ circles.

How many circles did you draw?

27. Otis drew a car with one rectangle, two circles, and one triangle.

Which car did Otis draw?



28. Look at the addition problem in the box. Which other problem has the same answer?

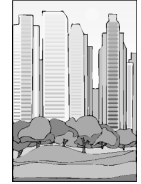
$$9 + 8 + 2 = 19$$

- $9 + 2 + 8 = \square$
- $19 + 2 + 9 = \square$
- $9 + 19 + 8 = \square$

29. The Man of Iron must travel to each true number sentence to reach the city.  
Circle every true number sentence to help The Man of Iron reach the city.



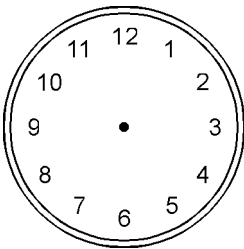
$3 + 1 = 5$	$4 + 0 = 4$	$6 + 8 = 14$
$10 = 2 + 7$	$17 = 8 + 9$	$6 + 3 = 8$
$1 = 1$	$2 + 6 = 8$	$7 = 3 + 2$



30. Merlyn and her grandmother make peach ice cream.

Merlyn's grandmother gives her two clues to the time when the ice cream will be ready to eat.

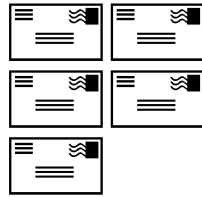
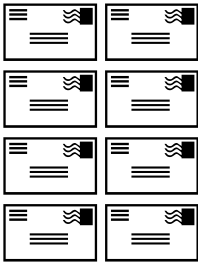
- The hour hand points between the 4 and 5.
- The minute hand points to the 6.



Draw the time on the clock.

What time will the ice cream be ready to eat?

31. The mail carrier delivered eight letters. She delivered five more letters. Then she delivered three more letters.



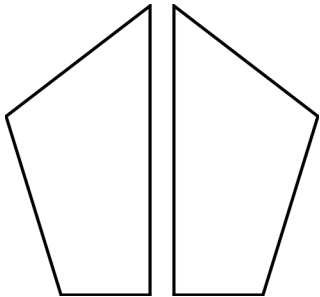
How many letters were delivered in all?

$8 + 5 + 3 = 13$

$8 + 5 + 3 = 16$

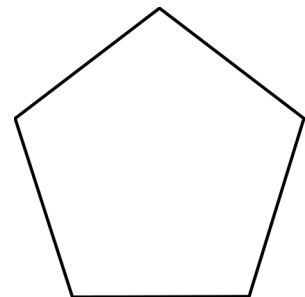
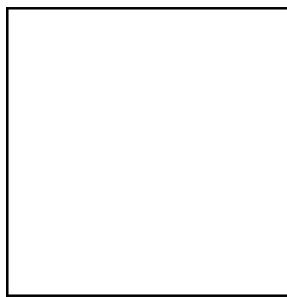
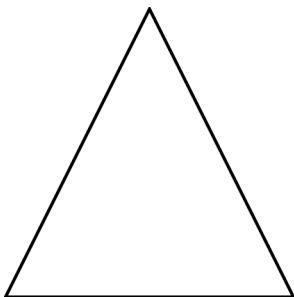
$8 + 3 + 1 = 12$

32. Look at the two shapes.



The two shapes can be put together side by side to make a new shape.

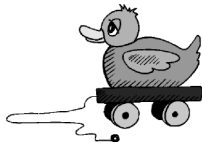
Which of the following is the new shape?





33. Ben took a spin of the prize wheel to win prize bucks.

Ben won 15 prize bucks to trade for prizes.



3 prize bucks



9 prize bucks



7 prize bucks



8 prize bucks

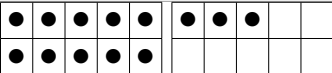
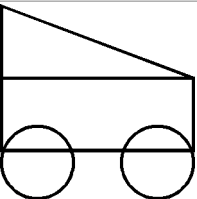
What 2 prizes can he get if he uses all 15 prize bucks?

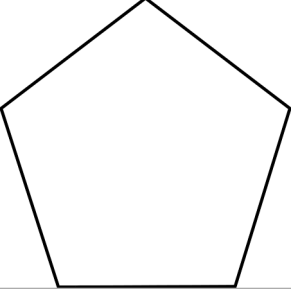
Write the different groups of 2 prizes that Ben can get if he uses less than 15 prize bucks.

2 prizes	Number of prize bucks

**Problem-Attic Sample Document**  
**all items from CCSS Math Database**  
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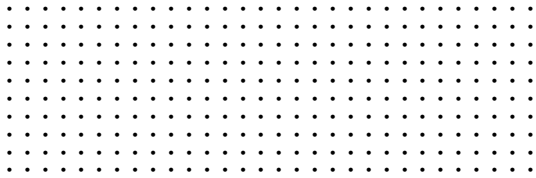
**Grade 1**

Num	Scoring	Standard	Answer
1	B	1.OA.06	$3 + 6 = 9$
2		1.G.02	8
3	C	1.MD.01	14
4		1.NBT.01	52; 5; 2
5	A	1.OA.01	$7 - 2 = \square$
6	A	1.OA.01	1
7	B	1.OA.02	$1 + 6 + 10 = 17$
8		1.NBT.01	
9	A	1.OA.02	16 tickets
10		1.OA.01	11
11	C	1.OA.01	9
12	A	1.OA.03	5
13	B	1.OA.01	$11 - 6 = 5$
14	C	1.OA.01	23
15	C	1.OA.01	8 pencils
16	B	1.NBT.02	5 tens and 10 ones
17	C	1.OA.02	12 cards
18	A	1.OA.01	13
19	C	1.OA.01	$6 - 3$
20		1.MD.04	6; 5; sandals; No, there are five sandals which cannot be grouped by twos.
21		1.G.03	[activity]; 4; fourth
22	C	1.MD.02	7
23	B	1.OA.01	15 boats
24		1.OA.01	4
25	B	1.OA.02	12
26		1.NBT.01	7; [answers vary]
27	A	1.G.02	
28	A	1.OA.02	$9 + 2 + 8 = \square$
29		1.OA.07	$1 = 1$ $2 + 6 = 8$ $17 = 8 + 9$ $4 + 0 = 4$ $6 + 8 = 14$
30		1.MD.03	4:30

31	B	1.OA.02	$8 + 5 + 3 = 16$
32	C	1.G.02	
33		1.OA.01	Flying Disc and Drum; Duck and Helicopter, 12, Duck and Flying Disc, 10, Duck and Drum, 11

## CCSS Math Samples — Grade 2

1. Use the dot grid to show the number 100.



What value does the 1 have in the number 100?

What value does the 0 have in 100?

2. Look at the addition problem in the box.

$$4 + 5 = 9$$

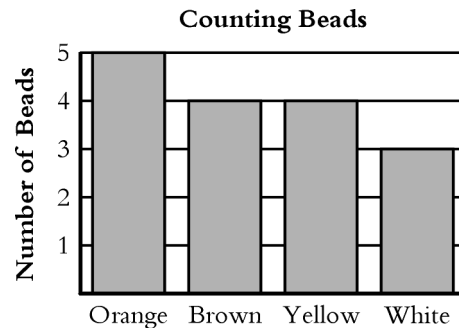
Which of these can be used to check the answer to the addition problem?

- (A)  $6 + 3 = 9$
- (B)  $9 + 5 = 14$
- (C)  $9 - 4 = 5$

3. Sylvia earned seven dollars and twenty-nine cents babysitting. How is this amount of money written?

- (A) \$7.29
- (B) \$0.729
- (C) \$0.29

4. Trudi counted the beads in a box. The graph shows the number of beads of each color that Trudi counted.



How many beads are in the box in all?

- (A) 5
- (B) 16
- (C) 20

5. Payton's friend gave him 7 model cars. Now he has a total of 24 model cars. How many cars did Payton have before his friend gave him the cars?

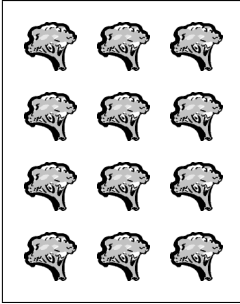
- (A) 31
- (B) 23
- (C) 17

6. Mr. Potley wrote a number sentence on the white board.

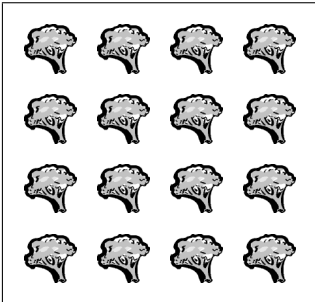
$$3 + 3 + 3 + 3 = 12$$

Which of these shows the number sentence?

(A)



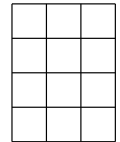
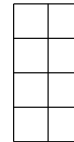
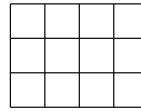
(B)



(C)



7.



Circle the rectangle that has 3 rows and 4 columns.

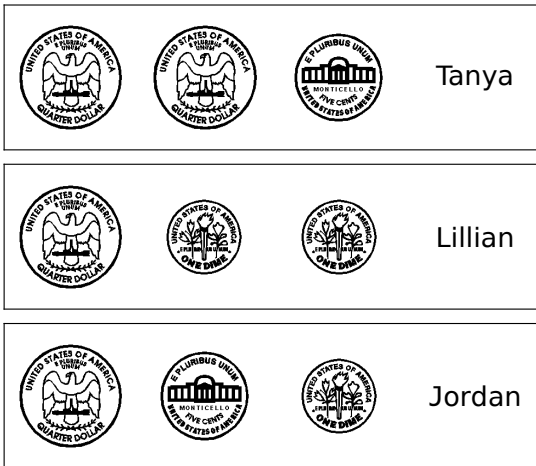
Write the number of same-size squares under each rectangle.

8. Jake poured a bowl of cereal but 12 pieces of cereal fell out of the bowl.

Which of these describes how Jake can tell if 12 is an even number?

- (A) count by 2's with none left over
- (B) count by 2's with one left over
- (C)  $9 + 3 = 12$  so 12 must be odd

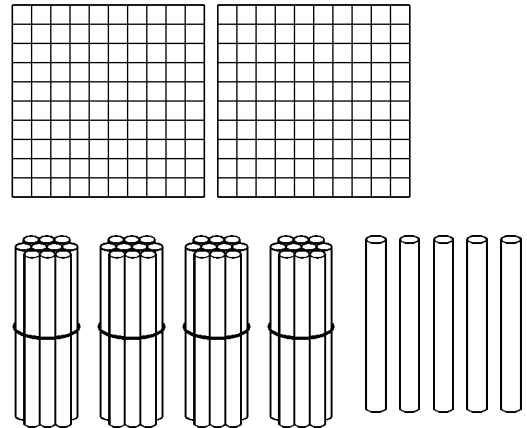
9. Three friends each have three coins.



Whose coins have the greatest value?

- (A) Tanya  
 (B) Lillian  
 (C) Jordan
10. There are 87 white cars.  
 There are 39 gray cars.  
 How many cars in all?
- (A) 116    (B) 118    (C) 126
11. Which of these is the *best* estimate for the length of a car?
- (A) 1 foot  
 (B) 3 feet  
 (C) 12 feet

12. What is another way of writing the number shown in the picture?



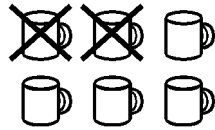
- (A)  $200 + 60 + 5$   
 (B)  $200 + 50 + 5$   
 (C)  $200 + 40 + 5$
13. There are 125 hand soap pump bottles on the shelves at the store.  
 There are 316 hand soap pump bottles in the storeroom.  
 How many hand soap pump bottles in all?
14. Draw a picture and write an addition story using these details:  
 3 apples, 5 oranges, 6 apples  
 Kim, Ron, Mark

15. Which subtraction problem is shown in the picture?

(A)  $4 - 2 = 2$

(B)  $4 - 2 = 1$

(C)  $6 - 2 = 4$



16. Mr. Miller made 100 breakfast goods to sell in his bakery.

The table shows the kinds of breakfast goods he made.

**Breakfast Goods**

Cinnamon Rolls	25
Sprinkle Donuts	50
Apple Fritters	10
Glazed Donuts	15

Customers bought all of the Cinnamon Rolls and the Sprinkle Donuts.

How many breakfast goods did Mr. Miller sell?

Does Mr. Miller have any breakfast goods left?

If Mr. Miller has breakfast goods left, how many does he have?

17. What is another way to write 63?

(A)  $60 + 30$

(B)  $6 + 3$

(C) 6 tens and 3 ones

18. Jasmin went to the zoo.

She saw 4 zebras wiggling their ears.

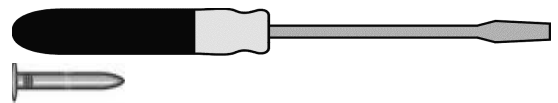
She made a table to count the ears.

Zebras	Ears
1	2
2	4
3	
4	

Complete the table.

How many ears did 4 zebras have altogether?

19. About how many nails long is the screwdriver?

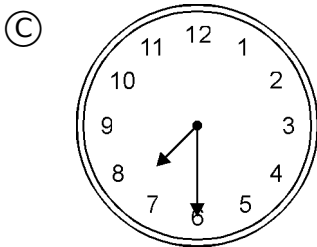
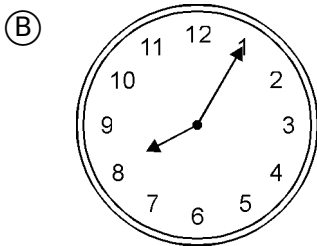
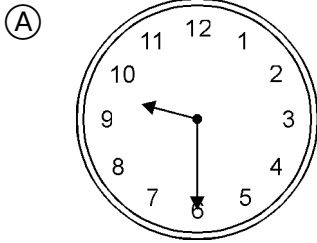


(A) 6

(B) 9

(C) 11

20. Mrs. Jones goes to work between 7:00 and 8:00. Which clock shows a time she might go to work?

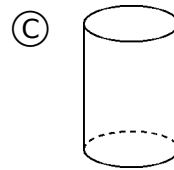
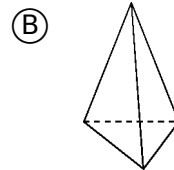
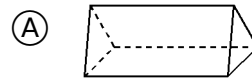


21. Sawyer measured something that was about 12 inches tall.

Which item could he have measured?

- (A) vacuum cleaner
- (B) traffic light
- (C) snow boot

22. Which figure best represents a triangular prism?



23. The store has many camping items. The camping items include 64 lanterns, 48 camp stoves, 75 sleeping bags, and 43 tents.

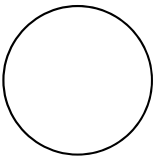
$64 + 48 + 75 + 43 = \square$
-------------------------------

How many camping items in all?

- (A) 127
- (B) 187
- (C) 230



24. Mrs. Smith asked Terrence to cut the cupcake into two equal pieces.



**Cupcake**

Show how this can be done.

What is the name of the parts?

How many parts in the whole?

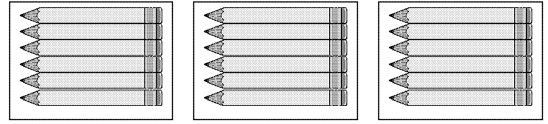
25. The table shows how many shots were made by the basketball players.

player	shots made
Monique	26
Kim	21
Rhonda	37

Which number sentence can be used to find how many more shots Rhonda made than Monique?

- (A)  $37 - 26 = \square$
- (B)  $21 + 26 = \square$
- (C)  $37 - 21 = \square$

26. Lizeth put pencils in 3 different pencil boxes for her teacher. She put 6 pencils in each box.



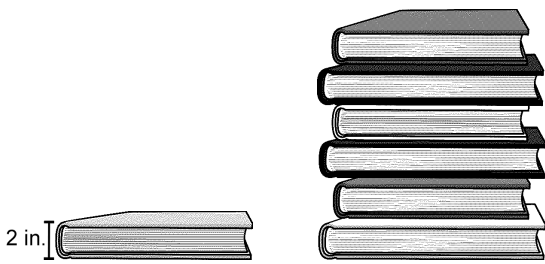
Which shows how to use addition to find how many pencils she had in all?

- (A)  $3 + 3 + 3$
- (B)  $3 + 6$
- (C)  $6 + 6 + 6$

27. Michael has 5 cars and some trucks in his toy chest. What information is needed to find the total number of cars and trucks in Michael's toy chest?

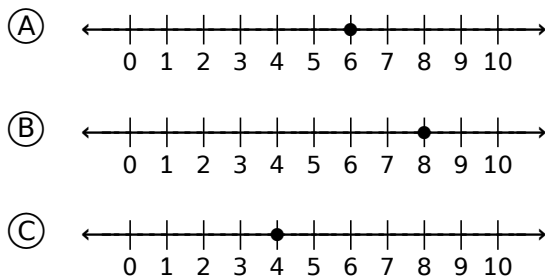
- (A) The number of toys in the chest
- (B) The number of trucks in the chest
- (C) The size of the toy chest

28. Each book is two inches tall. How tall is the stack of books in the picture?

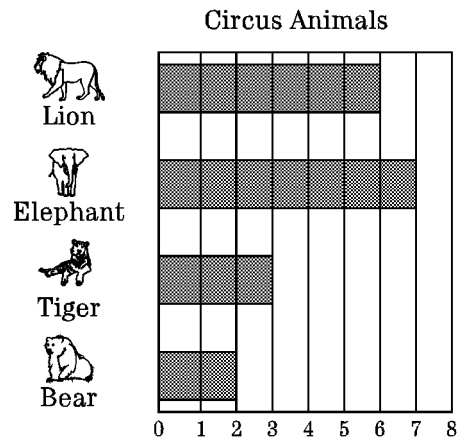


- (A) 6 inches
- (B) 12 inches
- (C) 20 inches

29. If you subtract 1 from my number you get 7. My number is a whole number between 0 and 10. Which number line has a dot on my number?



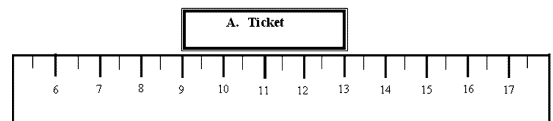
30. Joanna went to the circus with some friends. She wrote a report for her class about what she saw at the circus. She made the graph to show some of the animals she saw.



How many lions and tigers did Joanna see?

- (A) 10
- (B) 9
- (C) 5

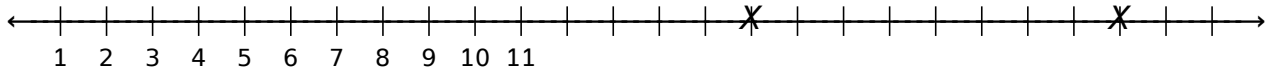
31. Janie received the ticket shown below from her teacher. She was practicing using her ruler and measured the length of her ticket in centimeters.



How long was Janie's ticket?

- (A) 4 cm
- (B) 6 cm
- (C) 13 cm

32. Kelsey drew a number line in the sand.  
 She forgot to place numbers under each hash mark.  
 She placed an X on two hash marks.



Write the correct number under each X.

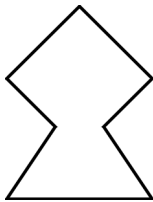
Circle a number that is greater than 6.

Make a triangle around a number that is less than 15.

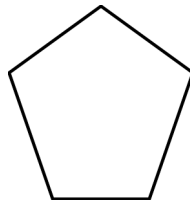
Draw a rectangle around a number between 13 and 18.

33. Which of the figures is a hexagon?

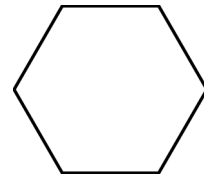
Ⓐ



Ⓑ



Ⓒ



34. Fill in each blank with the name of an item that is about the same as the measurement.

**about 8 in**

1. \_\_\_\_\_

2. \_\_\_\_\_

**about 8 cm**

1. \_\_\_\_\_

2. \_\_\_\_\_

**about 8 m**

1. \_\_\_\_\_

2. \_\_\_\_\_

35. Liam has these coins in his pocket.



Liam needs 58¢ more to buy a pack of mints.

How much does the pack of mints cost?

- (A)
- (B)
- (C)

36. Mr. Morgan asked his students to describe a cube.

**Sally** said, "It has four equal sides."

**Greg** said, "Its faces are all squares."

**Kris** said, "It looks like an open box."

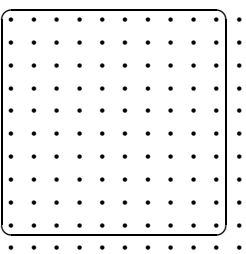
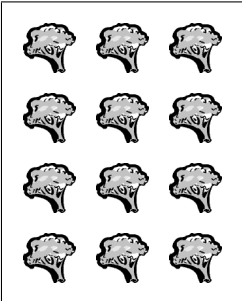
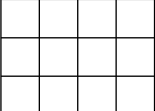
**Joey** said, "It's a small rectangle."

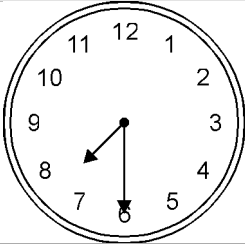

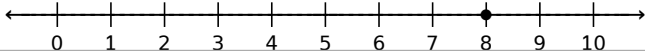
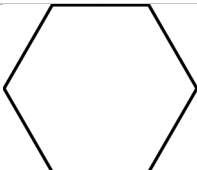

Which student gave the right answer?

- (A) Greg
- (B) Kris
- (C) Joey

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**Grade 2**

Num	Scoring	Standard	Answer
1		2.NBT.01	 1 hundred or 100; 0 tens
2	C	2.NBT.05	$9 - 4 = 5$
3	A	2.MD.08	\$7.29
4	B	2.MD.10	16
5	C	2.OA.01	17
6	A	2.OA.04	
7		2.G.02	 ; 12, 8, 12
8	A	2.OA.03	count by 2's with none left over
9	A	2.MD.08	Tanya
10	C	2.NBT.07	126
11	C	2.MD.03	12 feet
12	C	2.NBT.03	$200 + 40 + 5$
13		2.NBT.07	441
14		2.NBT.07	answers vary
15	C	2.OA.01	$6 - 2 = 4$
16		2.OA.01	75 breakfast goods; yes; 25 breakfast goods
17	C	2.NBT.01	6 tens and 3 ones
18		2.NBT.02	6, 8; 8
19	B	2.MD.03	9

20	C	2.MD.07	
21	C	2.MD.03	snow boot
22	A	2.G.01	
23	C	2.NBT.06	230
24		2.G.03	[graph]; halves; 2
25	A	2.OA.01	$37 - 26 = \square$
26	C	2.OA.04	$6 + 6 + 6$
27	B	2.NBT.07	The number of trucks in the chest
28	B	2.MD.09	12 inches
29	B	2.MD.06	
30	B	2.MD.10	9
31	A	2.MD.01	4 cm
32		2.MD.06	
33	C	2.G.01	
34		2.MD.03	
35	B	2.MD.08	
36	A	2.G.01	Greg

CCSS Math Samples — Grade 3

1. Color the shapes to show the correct fraction.

$$\frac{4}{6}$$



Now draw a line to split the figure equally.

After drawing the line, are the pieces larger or smaller than they were at the beginning?

What is the name of each piece after drawing the line?

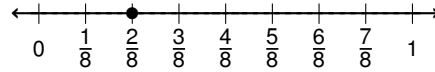
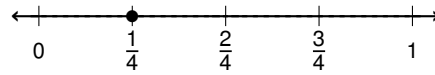
2. Tobias picked 6 more berries than Sage. Sage picked 8 more berries than Riley. Riley picked 12 berries. How many berries did Tobias pick?

- (A) 26 berries because  $12 + 8 + 6 = 26$   
 (B) 14 berries because  $6 + 8 = 14$   
 (C) 60 berries because  $6 \times 8 + 12 = 60$   
 (D) 2 berries because  $8 - 6 = 2$

3. Which is the *best* estimate for the capacity of a coffee cup?

- (A) 2 milliliters  
 (B) 20 milliliters  
 (C) 200 milliliters  
 (D) 2,000 milliliters

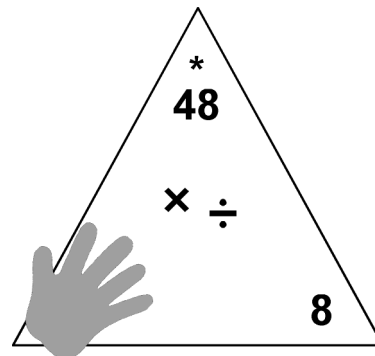
4. Gabriella looked at the points on two different number lines.



Which of these is a reasonable conclusion for Gabriella to draw about the points?

- (A)  $8 > 4$                       (B)  $\frac{1}{4} = \frac{2}{8}$   
 (C)  $\frac{1}{4} > \frac{2}{8}$                       (D)  $\frac{1}{4} < \frac{2}{8}$

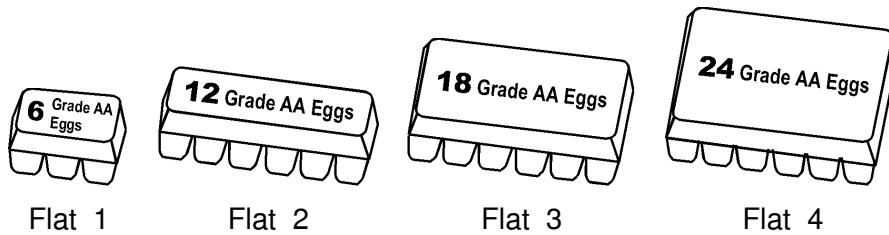
5. Jennifer placed her hand over one corner of the fact triangle.



Which of these will help find the number under her hand?

- (A)  $4 \times 8 = 48$                       (B)  $6 \times 8 = 48$   
 (C)  $7 \times 8 = 48$                       (D)  $8 \times 8 = 48$

6. Mario needs to buy 40 eggs for the charity breakfast. The picture shows different size “flats” that he can buy.



Which 2 flats should he buy to come as close as possible to 40 eggs?

- (A) Flat 3 and 4      (B) Flat 2 and 4      (C) Flat 2 and 3      (D) Flat 1 and 4

7. Write a number in the square and in the circle to make a true number sentence.

$$\square - \bigcirc = 24$$

Is there more than one pair of numbers that will make a true sentence?

Write at least two different pair of numbers to make a true sentence.

8. Carol and her friends bought 4 boxes of doughnuts. There were a dozen doughnuts in each box. They ate 40 doughnuts altogether. How many doughnuts were left?

- (A) 8      (B) 12      (C) 36      (D) 48

9. There are 3 boxes of door hinges. There are 150 door hinges in all.

$$3 \times \underline{\quad} = 150$$

How many hinges in each box?

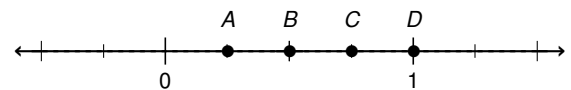
- (A) 30      (B) 40      (C) 50      (D) 60

10. Lacy placed 5 paper napkins on each table. There are 80 tables.

Which of these tells how many paper napkins in all?

- (A) 40 ones      (B) 10 ones  
(C) 40 tens      (D) 10 tens

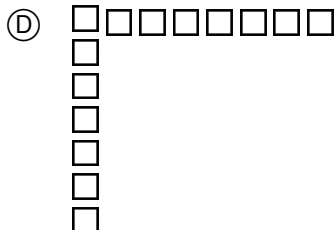
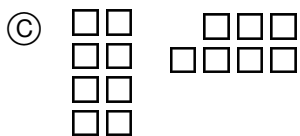
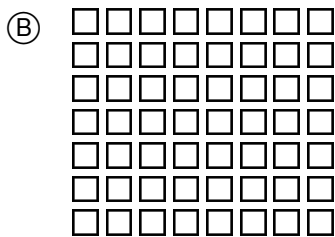
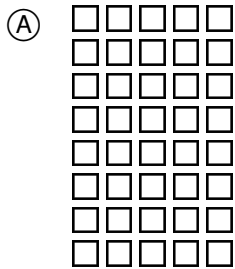
11. Marinda said that she could only eat  $\frac{1}{2}$  of her sandwich. Which point best represents  $\frac{1}{2}$  on the number line?



- (A) A      (B) B      (C) C      (D) D



12. Which drawing shows eight times seven?

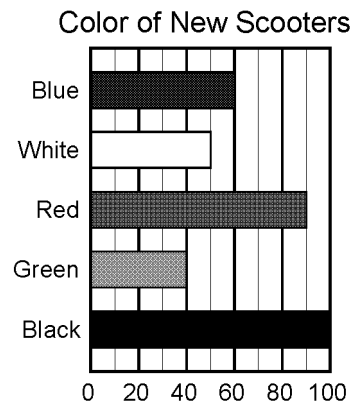


13. Drew and his dad want to cut a display board for a science project. The length around the edge of the board must be 18 feet. Complete the table.

Area (square feet)	Length (feet)	Width (feet)	Perimeter (feet)
9	3		12
16	4		
25	5		
49	7		

What is the largest display board for the needed length around the edge?

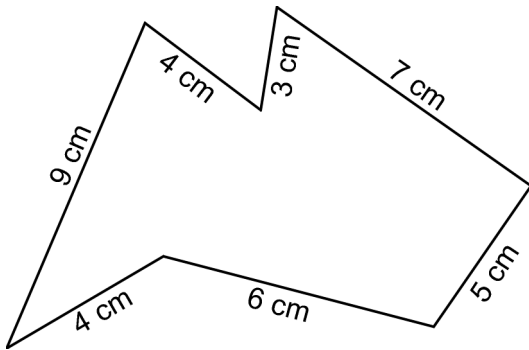
14. Ashton sells new scooters. He recorded on a graph the colors of the new scooters he sold last year.



The total number of green scooters and black scooters that Ashton sold last year was the same as the total number of—

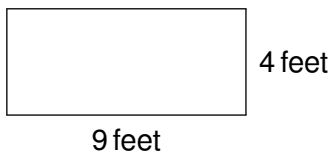
- (A) red scooters and green scooter
- (B) white scooters and red scooters
- (C) blue scooters and red scooters
- (D) white scooters and green scooters

15. What is the perimeter of the polygon?



- (A) 31 cm                      (B) 35 cm  
 (C) 38 cm                      (D) 46 cm

16. Ms. Carrell wants to paint a wall. She measured the wall and wrote an expression to describe the area.

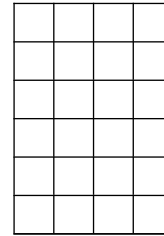


- I.  $4(4 + 5)$   
 II.  $9 \times 4$   
 III.  $5(4 + 4)$   
 IV.  $(4 \times 4) + (5 \times 4)$

Which of these could be the expression Ms. Carroll wrote?

- (A) I only  
 (B) I and IV only  
 (C) II and III only  
 (D) I, II, and IV only

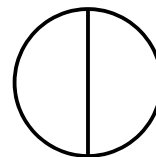
17. Diana used unit squares to cover a figure. There were no spaces between the squares. Diana made sure that no square was placed on top of another square.



What is the area of the figure?

- (A) 24 units  
 (B) 24 square units  
 (C) 4 units  
 (D) 4 square units

18. The figure is divided into two equal parts.



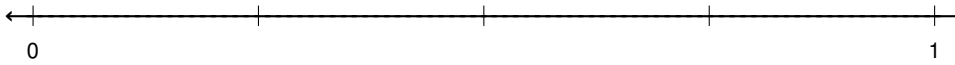
Which of these is the fractional name of each part?

- (A)  $\frac{1}{4}$       (B)  $\frac{2}{2}$       (C)  $\frac{2}{1}$       (D)  $\frac{1}{2}$

19. Jun watched his cat one day and kept track of the time the cat spent napping.

$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
---------------	---------------	---------------	---------------	---------------	---------------	---------------

Length of Cat Naps  
(hours)



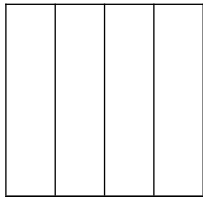
Label the line with the correct fractions.

Make a line plot to show the information.

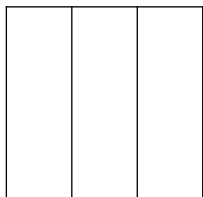
Which amount of time did Jun's cat spend napping most often?

20. The Ace Parking lot has four empty spaces. The Central Parking lot has three empty spaces.

Ace Parking



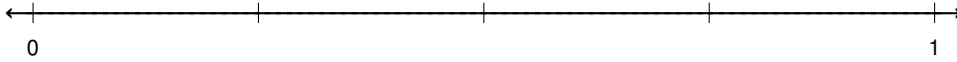
Central Parking



Which parking lot has larger spaces?

- Ⓐ Central Parking because  $\frac{1}{3} > \frac{1}{4}$ .
- Ⓑ Ace Parking because  $\frac{1}{4} > \frac{1}{3}$ .
- Ⓒ Ace Parking because the parking lot has more empty spaces.
- Ⓓ Ace Parking because the denominator 4 is greater than the denominator 3.

21. Mr. Whitmore drew a number line. He forgot to label the parts.



How many parts are there?

Label the number line with fractions that each have the same denominator.

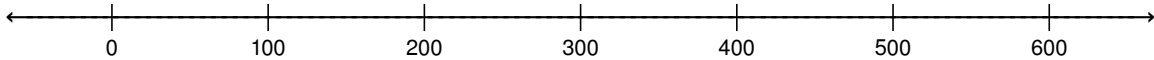
What is the denominator of each fraction?

How do you know?

Draw a point to show the unit fraction and label the point B.

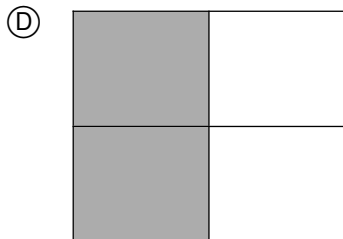
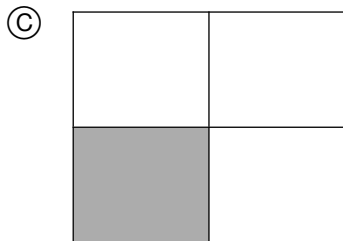
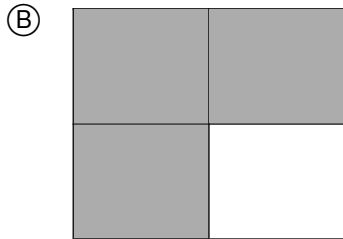
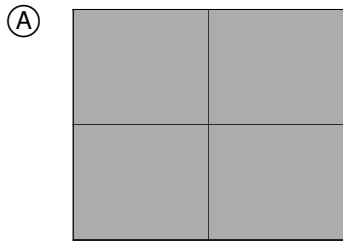
22. Mr. Richter knows he needs 63 bricks to build a 5 foot long wall.

- a) Mr. Richter needs to build a 15 foot long wall. How many bricks will he need?
- b) Rounded to the nearest hundred, how many bricks will he need? Show the number on the number line.

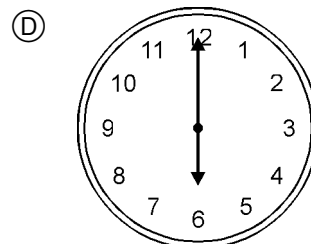
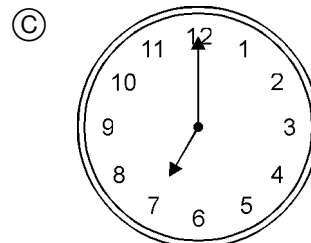
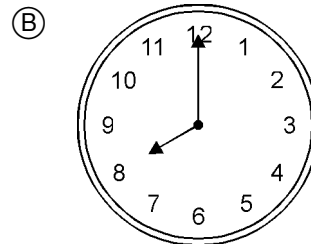
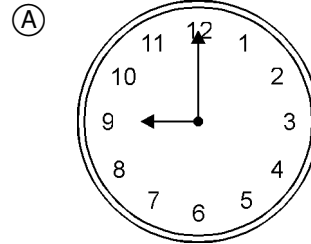


- c) To build a shorter wall, he will need 36 bricks to build a 4 foot long wall. How many bricks will Mr. Richter need to build a 15 foot long wall?
- d) To allow for mistakes and breakage, Mr. Richter wants to buy 15 extra bricks for his shorter wall. How many bricks will he need now?

23. Mrs. Denson drew a square on the board and shaded  $\frac{3}{4}$  of it. Which square did she draw?



24. Mr. Ortiz goes for a walk every evening at 7:00. He stops walking 1 hour later. Which clock shows the time he stops walking?



25. Chase snapped together plastic bricks to make a wall.

He counted 28 bricks in the first row.

Then he added...

- 24 bricks in the second row
- 20 bricks in the third row
- 16 bricks in the fourth row

If the pattern continues, how many plastic bricks will Chase add in the sixth row?

26. Look at the number line.



What number belongs where you see the letter A?

- (A) 0      (B) 2      (C) 6      (D) 18

27. Lily collected postcards on her trip to Florida and taped them into a scrapbook. She put the same number of postcards on each page.

pages	1	2	3	4	5	6	7	8
postcards	3	6	9	12	15	?	21	24

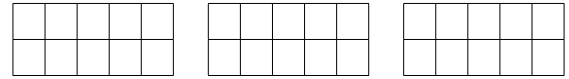
What was the total number of postcards on page 6?

- (A) 17      (B) 18      (C) 19      (D) 20

28. John made 3 towers. He put 5 blocks on each tower.

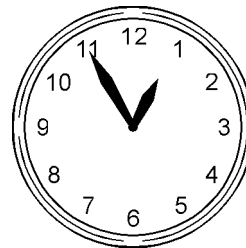
How many blocks did John use in all?

Use the ten frames to help you.

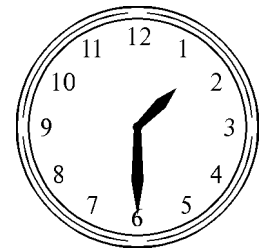


29. Each Friday the elementary students attend school chorus practice. The first clock shows when the school chorus practice begins. The second clock shows when the school chorus practice ends.

Practice begins



Practice ends

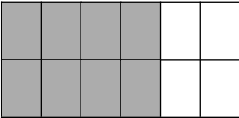
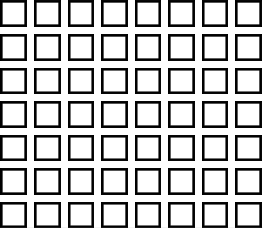


How many minutes long is the school chorus practice?

The school day begins exactly 5 hours before school chorus practice begins. At what time does school begin? Show your answer on the clock.

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**Grade 3**

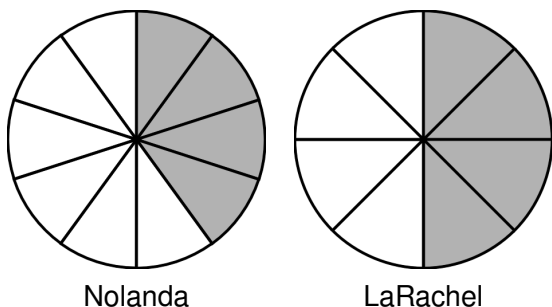
Num	Scoring	Standard	Answer																				
1		3.NF.01	 smaller; $\frac{1}{12}$																				
2	A	3.OA.08	26 berries because $12 + 8 + 6 = 26$																				
3	C	3.MD.02	200 milliliters																				
4	B	3.NF.03A	$\frac{1}{4} = \frac{2}{8}$																				
5	B	3.OA.06	$6 \times 8 = 48$																				
6	A	3.OA.08	Flat 3 and 4																				
7		3.NBT.02	[answers vary] ex: $32 - 8$ , $30 - 6$ , $28 - 4$																				
8	A	3.OA.08	8																				
9	C	3.NBT.03	50																				
10	C	3.NBT.03	40 tens																				
11	B	3.NF.02A	B																				
12	B	3.OA.01																					
13		3.MD.08	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Area (square feet)</th> <th>Length (feet)</th> <th>Width (feet)</th> <th>Perimeter (feet)</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>3</td> <td>3</td> <td>12</td> </tr> <tr> <td>16</td> <td>4</td> <td>4</td> <td>16</td> </tr> <tr> <td>25</td> <td>5</td> <td>5</td> <td>20</td> </tr> <tr> <td>49</td> <td>7</td> <td>7</td> <td>28</td> </tr> </tbody> </table> <p align="center">;</p> <p>Drew needs to cut the board to 4 feet square. The perimeter of 16 feet will be enough because <math>16 &lt; 18</math></p>	Area (square feet)	Length (feet)	Width (feet)	Perimeter (feet)	9	3	3	12	16	4	4	16	25	5	5	20	49	7	7	28
Area (square feet)	Length (feet)	Width (feet)	Perimeter (feet)																				
9	3	3	12																				
16	4	4	16																				
25	5	5	20																				
49	7	7	28																				
14	B	3.MD.03	white scooters and red scooters																				
15	C	3.MD.08	38 cm																				
16	D	3.MD.07C	I, II, and IV only																				
17	B	3.MD.05B	24 square units																				
18	D	3.G.02	$\frac{1}{2}$																				

19		3.MD.04	Length of Cat Naps (hours)	$\frac{1}{4}$ hour
20	A	3.NF.03A	Central Parking because $\frac{1}{3} > \frac{1}{4}$ .	
21		3.NF.02A	4; ; 4; [explanation]	
22		3.NBT.01	189; 200; 135; 150	
23	B	3.NF.01		
24	B	3.MD.01		
25		3.OA.09	8	
26	A	3.OA.09	0	
27	B	3.OA.09	18	
28		3.OA.01	15; [graph]	
29		3.MD.01	35 minutes; 7:55; [graph]	



CCSS Math Samples — Grade 4

1. Nolanda has 10 muffins on a tray and 4 are blueberry muffins. LaRachel has 8 muffins on a tray and 4 are blueberry muffins. Use the models to decide which girl has a greater fraction of blueberry muffins.



Nolanda

LaRachel

Which statement is true about the fraction models above?

- $\frac{4}{8} = \frac{4}{10}$         $\frac{4}{8} > \frac{4}{10}$   
  $\frac{4}{8} < \frac{4}{10}$         $\frac{4}{8} > \frac{6}{10}$
2. The perimeter of a rectangle is 40 yards. Find the width if the length of the rectangle is 8 yards.

- 5 yards       10 yards  
 12 yards       320 yd<sup>2</sup>

3. Mrs. Molina is a photographer. She gave this estimate of the number of students she will photograph on picture day:

440
-----

There were actually 437 students to be photographed. To make sure that she brought enough supplies, Mrs. Molina rounded the number to the nearest ten. Which of the following is also rounding to the nearest ten?

- Jake asks to borrow \$1.90, and a friend gives him \$2.  
 Silvia wants to buy 123 stamps and rounds the number to 130.  
 Travis has 46 baseball trading cards and says he has about 50.  
 Bill drives 88 miles and says he drove close to 100 miles.
4. Circle the numbers in which the digit 8 represents the value of 800.

2,800	5,392	46,000
1,286	4,829	15,943
5,628	7,381	27,850

5. Alonzo practiced throwing 20-yard football passes. He threw the same number of practice passes each day.

Football Practice

Number of Days of Practice	Total Number of Throws
2	26
3	39
5	65
7	

Based on this pattern, which expression shows the total number of passes Alonzo threw during 7 days of practice?

- $12 \times 13$         $65 + 39$   
  $7 + 13$         $7 \times 13$

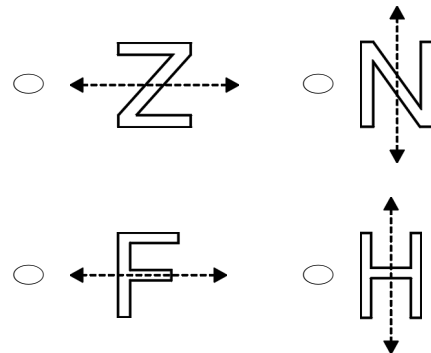
6. In which of these situations would it be acceptable to round the numbers?

- the number of passengers who can safely board a ferry  
 the amount of pressure needed to safely inflate a rubber raft  
 the cost of a meal at a restaurant  
 the number of times children slide down playground equipment during recess

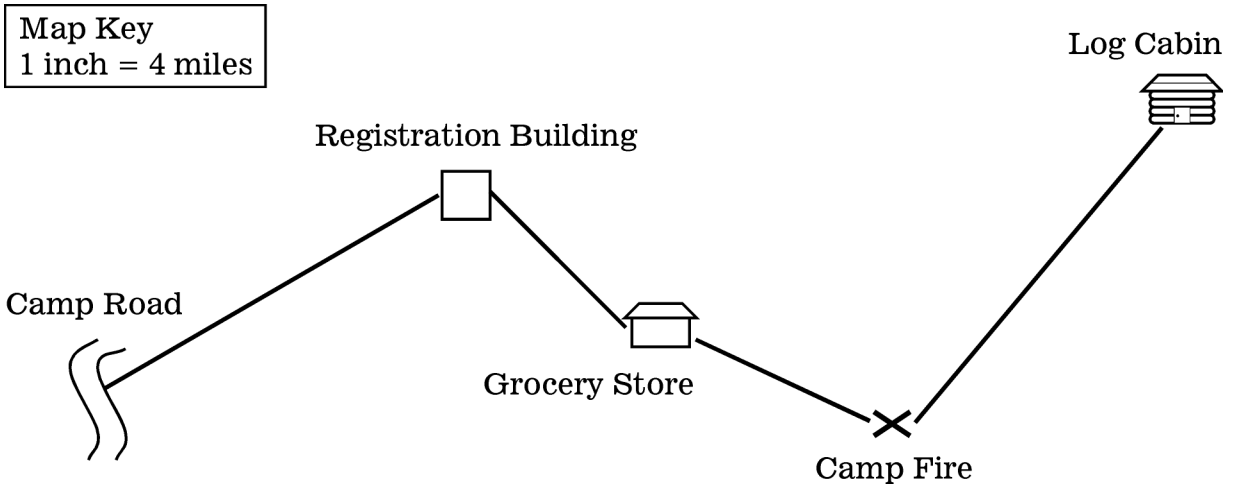
7. Look at each pair of numbers shown. Which pair contains two composite numbers?

- 21, 33       19, 31  
 25, 37       39, 43

8. Which dashed line is a line of symmetry?

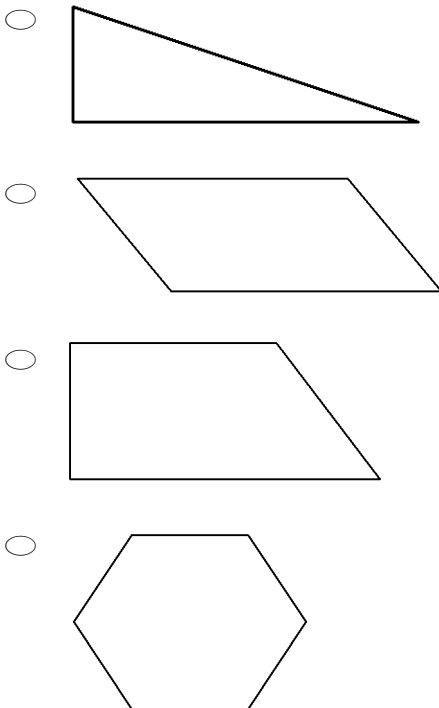


9. Look at the map below. Use a ruler to measure the line segments in inches.



What is the distance in miles from the Camp Road to the log cabin?

10. Victor tries to draw a line of symmetry through each figure. He quickly discovers that only one figure has a line of symmetry. Which figure has a line of symmetry?



11. Theresa had some friends over for dinner. They ate 1.6 buckets of fried chicken.

Show the decimal on the number line.



Write the decimal as a mixed number.

12. A bag of gumdrops contains 39 pieces of candy. Approximately how many gumdrops would Marcie have if she bought 11 bags for a party?

300    400    500    550

13. Hallmark Elementary School has 1,032 students.

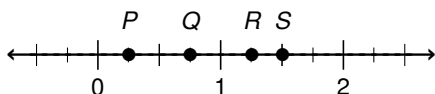
Anwari Elementary School has 1,189 students.

What is the total number of students at the 2 schools?

14. Brady works at a restaurant. He ordered a total of 44,073 straws and 54,371 napkins. Which statement is true about his number of straws and napkins?

- The value of the tens place in each of the numbers is more than 70.
- The value of the hundreds place in each of the numbers is greater than 500.
- The value of the thousands place in each of the numbers is 4,000.
- The value of the ten thousands place in the number of napkins ordered is 40,000.

15. The number 0.25 is best represented by which point?



- P     Q     R     S

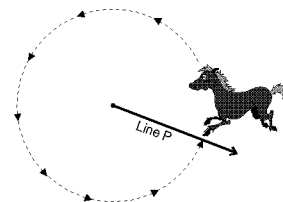
16. Which of the following shapes has the greatest number of lines of symmetry?

- trapezoid                       rhombus
- square                               circle

17. What is the difference between the distance run in a 2000-meter race and the distance run in a 150-meter race?

- 1,840 m                       1,850 m
- 1,950 m                       2,150 m

18. The ponies at a street fair are trained to walk slowly in a circle so that children can safely ride on them. One day, Marcos rode a pony in a complete circle. He began to ride at Line P and stopped at the same place he started.



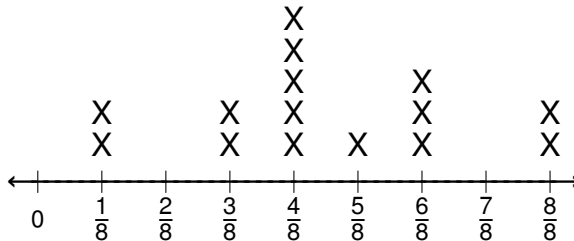
Which of these describes the rotation that Marcos rode?

- 1 degree                       90 degrees
- 180 degrees                       360 degrees

19. Use the data below to answer the following question(s).

The Diamond Mine is a store that sells diamond rings. The unit of measure to describe the weight of a diamond is called a carat. The store kept track of the weight of diamonds sold during one week and recorded the information in the line plot.

**Diamond Weight (carats)**



What is the difference between the weight of diamond that was sold most and least often?

20. Sam was playing a game with tiles. He could trade tiles as shown.

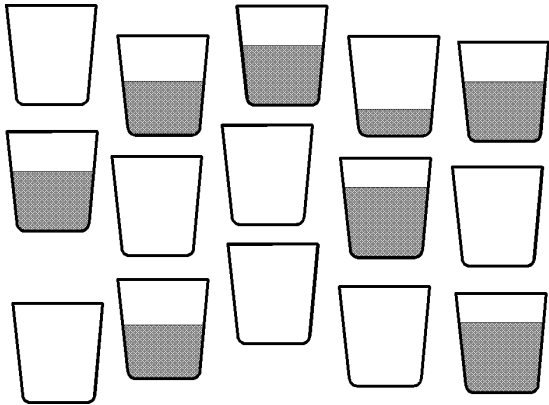
$$\boxed{\text{Blue}} = \boxed{\text{Red}} \boxed{\text{Red}}$$

$$\boxed{\text{Red}} = \boxed{\text{White}} \boxed{\text{White}} \boxed{\text{White}}$$

Complete the table to show Sam two other ways that he can trade tiles.

words	drawings
1 Blue =	$\boxed{\text{Blue}} =$
4 Red =	$\boxed{\text{Red}} \boxed{\text{Red}} \boxed{\text{Red}} \boxed{\text{Red}} =$

21. Mr. Collier was cleaning up after his daughter's birthday party. What fraction of all the cups still have juice in them?



22. What is the pattern in this sequence of numbers?
- 27, 23, 19, 15, 11, ...
- They decrease by 2 each time.
  - The numbers decrease by 4 each time.
  - They decrease by subtracting 6.
  - The numbers decrease by 3 each time.

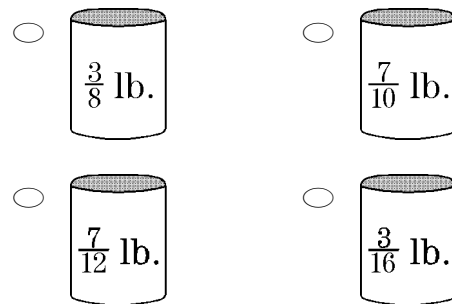
23. Gus is only 4 feet 7 inches tall, but his brother is 5 feet 2 inches tall. How much shorter is Gus than his brother?

- 5 in.
- 7 in.
- 9 in.
- 1 ft 7 in.

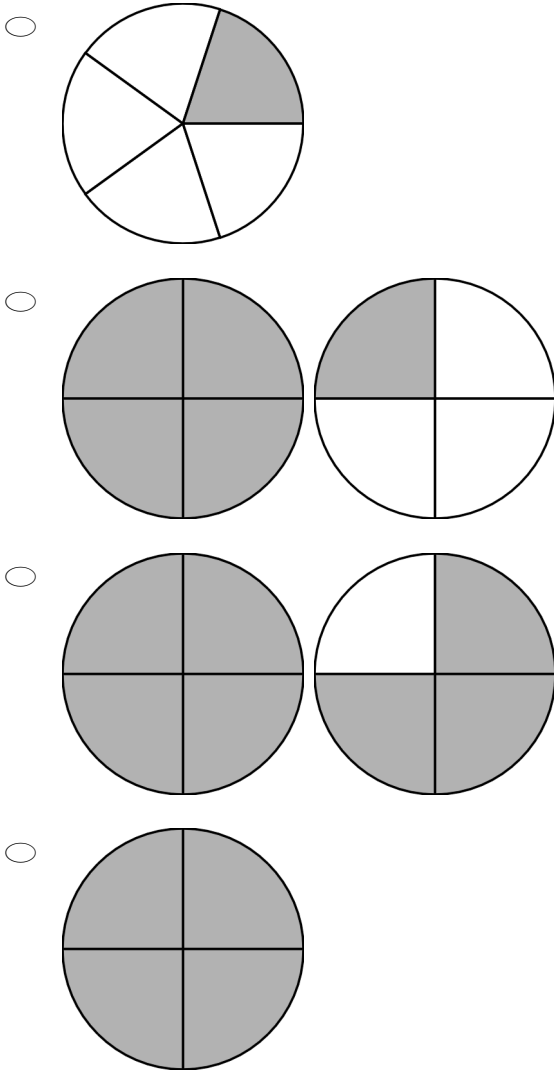
24. A square picture frame has an area of  $16 \text{ in.}^2$ . What size picture should be placed in the frame?

- 2 in.  $\times$  2 in.
- 2 in.  $\times$  8 in.
- 3 in.  $\times$  3 in.
- 4 in.  $\times$  4 in.

25. Kristin is bagging up chocolates to give away on Valentine's Day. In order to have enough for everyone, each bag needs to weigh between  $\frac{1}{4}$  lb and 1 lb. One of the bags does not contain the correct amount. Which one is it?



26. Which model shows  $\frac{5}{4}$  shaded?



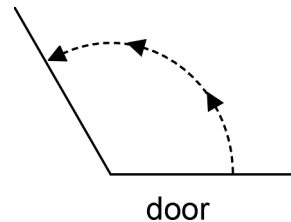
27. A plane left Cleveland at 8:10 am and arrived in Tampa at 1:35 pm. How long was the flight?

- 3 h 25 min       4 h 25 min
- 5 h 25 min       7 h 25 min

28. If two railroad tracks extended indefinitely in both directions without ever curving, the tracks could be thought of as a pair of \_\_\_\_\_.

- lines
- line segments
- rays
- rectangles

29. Look at the picture of a door from above. Khalid opened the door and rotated it 120 degrees before the door stopped.



How many one-degree turns did the door make?

- 60 degrees       80 degrees
- 120 degrees       240 degrees

30. Mr. Smith used  $\frac{6}{9}$  can of blue paint on Monday.

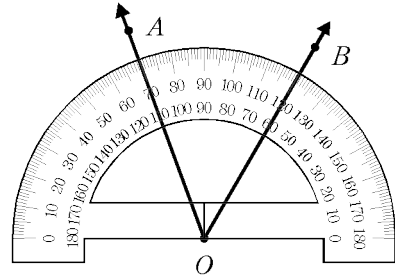
He use  $\frac{2}{3}$  can of red paint on Tuesday.

Did he use the same amount of paint on Monday and Tuesday?

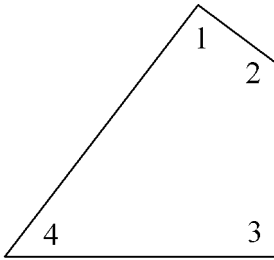
Explain your answer.

31. Find the measure of  $\angle AOB$ .

- $50^\circ$    
  $60^\circ$    
  $70^\circ$    
  $120^\circ$

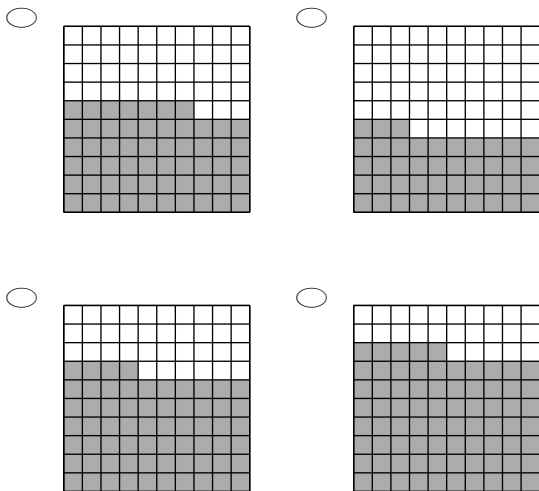


32. Which angle in the figure best represents an acute angle?



- angle 1     angle 2  
 angle 3     angle 4

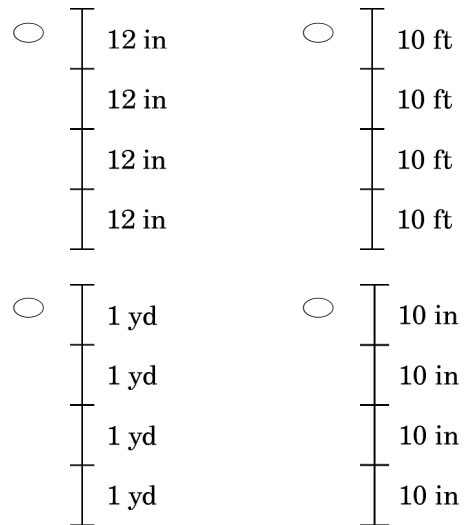
33. Which model shows  $\frac{57}{100}$  shaded?



34. Using decimals, indicate how many stars are black.



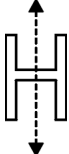
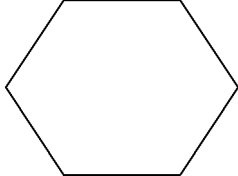
35. Laurie is 4 feet tall. Which picture shows a representation of how tall she is?

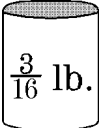
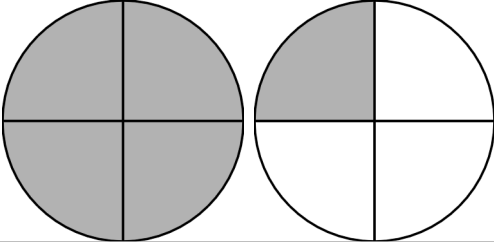
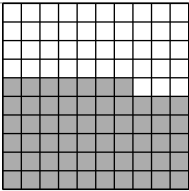
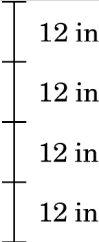




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**Grade 4**

Num	Scoring	Standard	Answer
1	B	4.NF.02	$\frac{4}{8} > \frac{4}{10}$
2	C	4.MD.03	12 yards
3	C	4.OA.03	Travis has 46 baseball trading cards and says he has about 50.
4		4.NBT.01	2,800    4,829    27,850
5	D	4.OA.05	$7 \times 13$
6	D	4.OA.03	the number of times children slide down playground equipment during recess
7	A	4.OA.04	21, 33
8	D	4.G.03	
9		4.MD.02	24 miles
10	D	4.G.03	
11		4.NF.06	[graph]; $1\frac{60}{100}$
12	B	4.OA.03	400
13		4.OA.03	2,221
14	C	4.NBT.01	The value of the thousands place in each of the numbers is 4,000.
15	A	4.NF.06	$P$
16	D	4.G.03	circle
17	B	4.NBT.04	1,850 m
18	D	4.MD.05A	360 degrees
19		4.MD.04	$\frac{1}{8}$ carat
20		4.OA.03	1 blue = 6 white; [graph]; 4 red = 2 blue [graph]
21		4.NF.01	$\frac{8}{15}$
22	B	4.OA.05	The numbers decrease by 4 each time.
23	B	4.MD.02	7 in.
24	D	4.MD.03	4 in. $\times$ 4 in.

25	D	4.NF.02	
26	B	4.NF.03B	
27	C	4.MD.02	5 h 25 min
28	A	4.G.01	lines
29	C	4.MD.05B	120 degrees
30		4.NF.02	Yes, $\frac{6}{9}$ and $\frac{2}{3}$ are equivalent fractions.
31	A	4.MD.06	$50^\circ$
32	D	4.G.01	angle 4
33	A	4.NF.06	
34		4.NF.06	0.20 because 2 of 10 stars are black
35	A	4.MD.01	

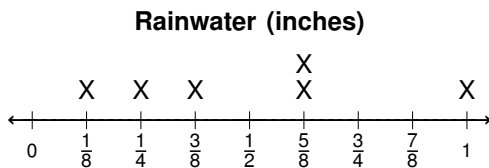
CCSS Math Samples — Grade 5

1. The arrow points to one digit.

$\downarrow$   
**9 9 . 9 9 9**

Describe the digit in relation to the others.

2. Marina and Jacob collected rainwater in six different locations on one day. The amount of rainwater collected in each location is shown on the line plot.



If redistributed equally, how much rainwater will there be in each container?

3. 100 grams is half the mass of object A and twice the mass of object B.

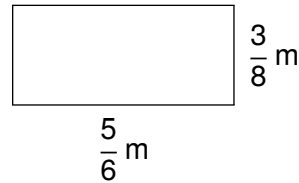
The heaviest object is how many grams more than the lightest one?

4. Sally has 5 bins of pinto beans. Each bin weighs  $31\frac{4}{5}$  pounds. To find how many pounds in all, Sally writes an equation.

$$31\frac{4}{5} \times 5 = ?$$

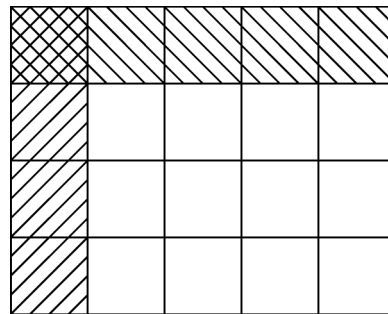
Using the distributive property, explain how Sally can solve this problem.

5. Stefan measured the length and width of a compost bin.



What is the area of the compost bin?

6. Use the model to complete the number sentence.



$$\frac{1}{5} \times \frac{1}{4} = \square$$

- a)  $\frac{1}{20}$     b)  $\frac{1}{9}$     c) 1    d)  $\frac{9}{20}$
7. A box has a base which measures 3 feet by 2 feet. If its volume is 30 cubic feet, what is its height?
- a) 2 ft    b) 3 ft    c) 4 ft    d) 5 ft
8. What is the value of the expression below if  $c = 8$ ?

$$18 - (c + 4)$$

- a) 6    b) 8    c) 14    d) 22

9. Look at the two products.

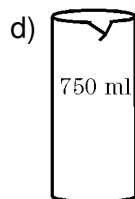
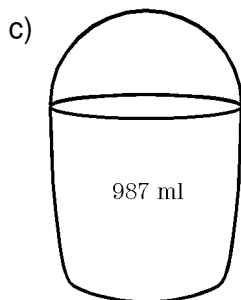
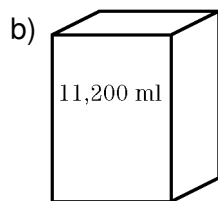
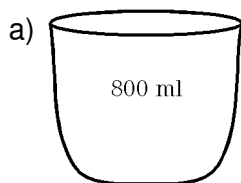
$$100 \times 30$$

$$100 \times 60$$

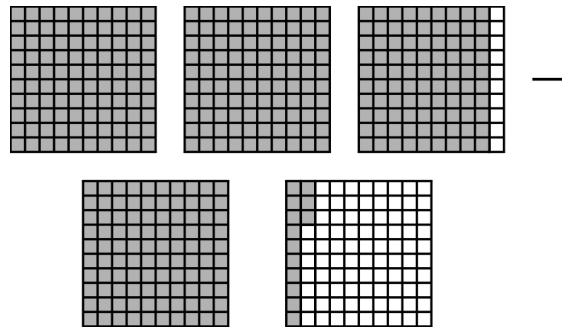
How do the products compare?

- a)  $100 \times 30$  is twice as much as  $100 \times 60$  because 30 is twice as much as 60
- b)  $100 \times 30$  is half as much as  $100 \times 60$  because 30 is twice as much as 60
- c)  $100 \times 60$  is twice as much as  $100 \times 30$  because 60 is twice as much as 30
- d)  $100 \times 60$  is thirty times as much as  $100 \times 30$  because 60 is thirty more than 30

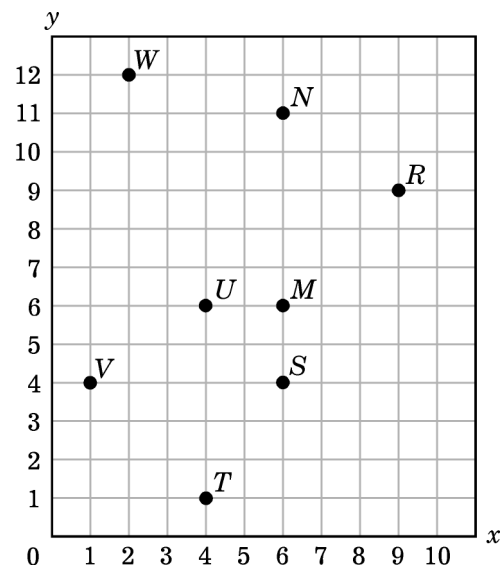
10. Which container holds about 1 liter?



11. Marty rode his bike 2.9 miles on Monday and 1.13 miles on Tuesday. How much farther did he ride on Monday?



12. The points on the grid represent the location of trees that have to be inspected for disease.



Mr. Hammerstein inspects the tree at point *N*. Then he goes 4 units left, 7 units down, and 4 units right.

What is the location of Mr. Hammerstein now?

- a) (4, 6)    b) (6, 4)    c) (1, 4)    d) (6, 6)

13. Payne wants to create a story problem to use the expression.

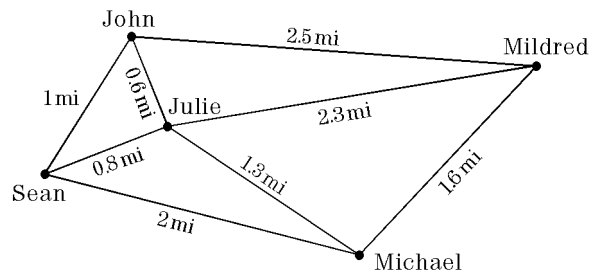
$$\frac{1}{6} \div 8$$

Which of the story problems can use the expression?

- a) Each refrigerator weighs  $\frac{1}{6}$  ton. If there are 8 refrigerators, how many tons in all?
- b) In the appliance store,  $\frac{1}{6}$  of total sales were refrigerators. If 8 refrigerators were sold, what fraction of total sales was each refrigerator?
- c) There are 8 loads of dishes to wash. If each load requires  $\frac{1}{6}$  cup of dishwasher detergent, how many cups of detergent are needed?
- d) There are 8 watches in each display case. Each display has  $\frac{1}{6}$  total watches. How many watches in all?

14. John measured the distance to the house of each of his friends and drew the map shown. On Saturday he rode his bike to Julie's house, then to Sean's house and then he rode back to his house. How far did he ride his bike on Saturday?

- a) 6.4 mi    b) 5.4 mi    c) 4.9 mi    d) 2.4 mi



15. Birthday cards sell for \$1.00 each. However, today they can be purchased in boxes of 5 for \$0.75 per card. How much will it cost to buy 2 boxes of cards?






- a) \$3.75                      b) \$5.00  
c) \$7.50                      d) \$10.00

16. The Burkhardt family served 12 buckets of fried chicken to guests at the barbeque. The guests ate  $\frac{1}{7}$  bucket each.

How many guests ate chicken?

- a)  $\frac{12}{7}$     b) 19    c) 79    d) 84

17. The students in Mrs. Leander's class did an experiment. They each rolled a die one time and tallied the results.

die roll	students
	
	
	I
	
	I

Based on the results, what fraction of students rolled an *odd* number on the die?

- a)  $\frac{5}{28}$       b)  $\frac{3}{14}$       c)  $\frac{1}{2}$       d)  $\frac{5}{6}$

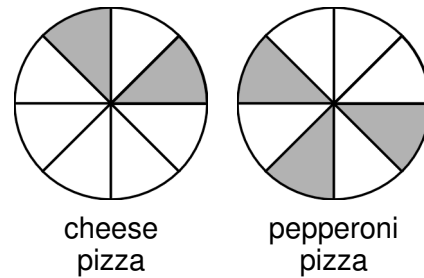
18. A store clerk counts 7 boxes of green shirts and 6 boxes of yellow shirts. Each box of shirts contains 8 shirts. Which expression tells the total number of shirts in the boxes?

- a)  $(8 \times 6) + 7$                       b)  $8 \times (7 + 6)$   
 c)  $8 + (7 \times 6)$                       d)  $(8 \times 7) + 6$

19. Susan bought a raincoat for \$105.98. She calculated the tax to be \$9.0083. What amount must she pay in taxes?

- a) \$9.00                                      b) \$9.0083  
 c) \$9.008                                    d) \$9.01

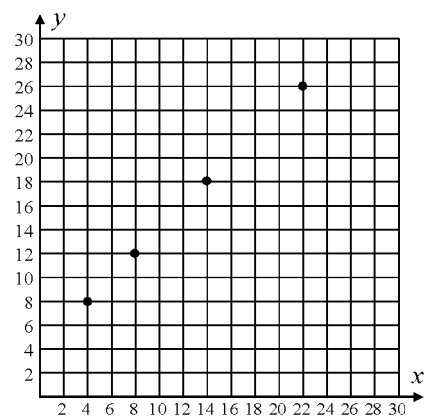
20. Tomi and her friends ordered two pizzas for dinner. The shaded areas show how much they ate. What fraction of the total did they eat?



- a)  $\frac{5}{6}$                       b)  $\frac{5}{8}$                       c)  $\frac{17}{24}$                       d)  $\frac{5}{14}$

21. Mrs. Spillman bought a bag of candy that weighed 2.48 pounds. She said that 1.5 pounds of the candy was chocolate. How much of the candy was not chocolate? Use a decimal manipulative to build a model.

22. Which rule is used to solve for  $y$  in the ordered number pairs on the graph?



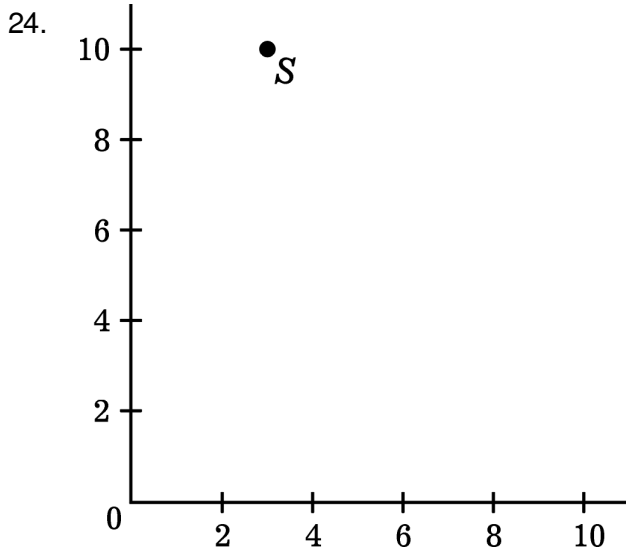
- a)  $x - 3$       b)  $x \cdot 3$       c)  $x + 4$       d)  $x \div 4$

23. Erin's baseball team went to the local ballpark to watch the playoff game. While there, some of the team members decided to get some snacks. The choices are shown on the menu:

Hot dogs \$2  
 Hamburgers \$3  
 French fries \$2  
 Soda \$0.75  
 Candy \$0.50

When the tickets were purchased, the group received a special of \$1 off of each hamburger or hot dog purchased.

Write a numerical sentence that represents the final cost if the group orders 3 hot dogs, 4 burgers, 7 sodas, and 4 fries. Use parentheses in your sentence.



Name the ordered pair for point S.

- a) (9, 3)                      b) (3, 9)  
 c) (10, 3)                    d) (3, 10)

25. The scale for luggage at the airport rounds to the nearest hundredth of a pound. If the scale reads 25.82 pounds for a piece of luggage, which of the following is possible for its real weight?

- a) 25.8                              b) 25.821  
 c) 25.831                          d) 26

26. Round the number 118,267,301 to the indicated place value.

hundreds \_\_\_\_\_

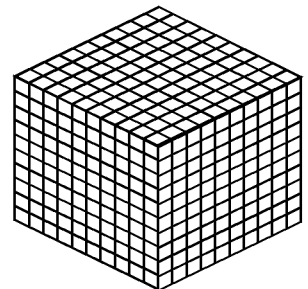
ten thousands \_\_\_\_\_

hundred thousands \_\_\_\_\_

ten millions \_\_\_\_\_

27. Mark shaded 0.011 on a thousandths cube. What fractional part did he shade?

- a)  $\frac{11}{10}$   
 b)  $\frac{11}{100}$   
 c)  $\frac{11}{1000}$   
 d)  $1\frac{1}{1000}$



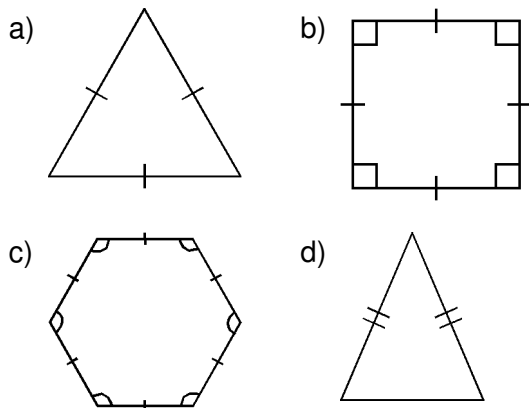
28. At a track meet, the girl's team recorded the following times in the 100 meter dash (in seconds):

Team Member	Time
Mary	5.67
Sue	6.75
Juanita	5.76
Shauna	7.65

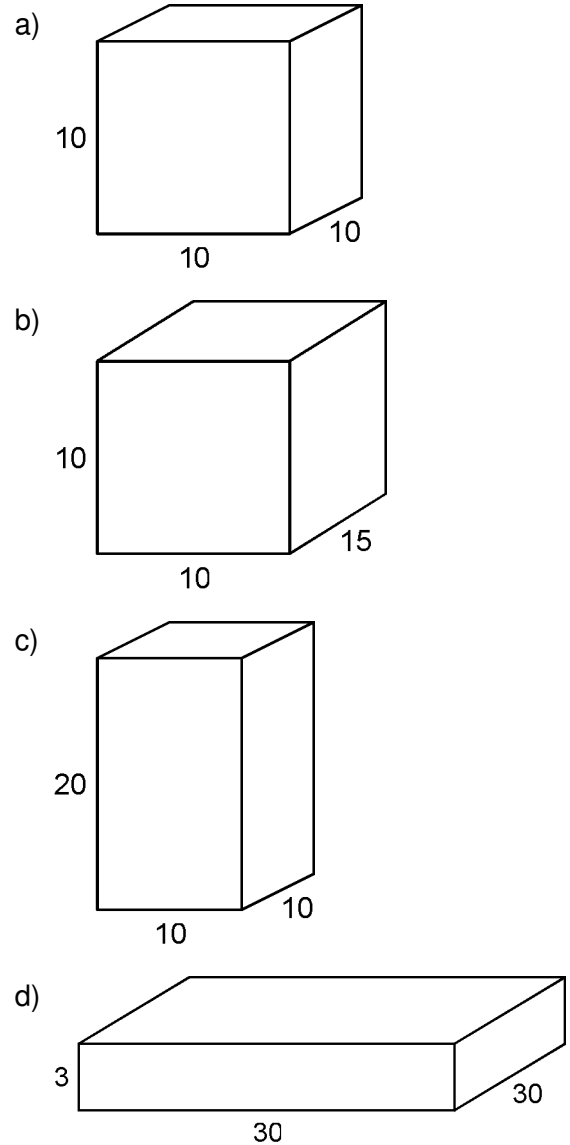
What is the order of girls from fastest to slowest?

- a) Mary, Shauna, Sue, Juanita
- b) Mary, Sue, Juanita, Shauna
- c) Juanita, Mary, Sue, Shauna
- d) Mary, Jaunita, Sue, Shauna

29. Which of the following is *not* a regular polygon?

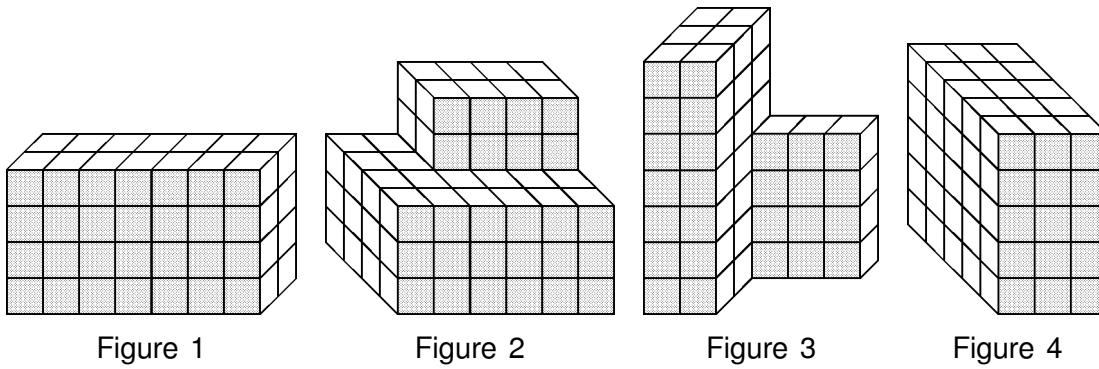



30. Fiona needs a box to use for a social studies project. The box needs to have a volume of 2,000 cubic inches. Which box will Fiona most likely choose?





31. Use these figures to answer the following question(s).



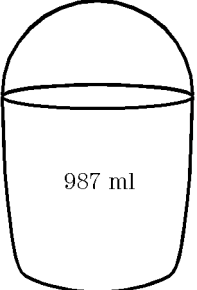
Each  = 1 cubic cm

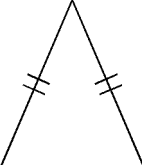
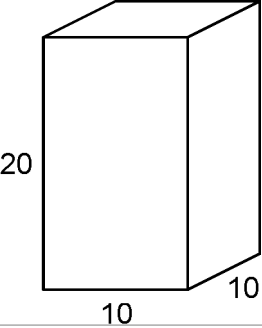
Which of these statements is true about the volumes of the figures?

- a) The volume of Figure 1 is 3 cubic centimeters more than Figure 4.
- b) The volume of Figure 2 is 16 cubic centimeters greater than Figure 1.
- c) The volume of Figure 3 is 34 cubic centimeters more than the volume of Figure 2.
- d) The volume of Figure 2 is 13 cubic centimeters greater than the volume of Figure 4.

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**Grade 5**

Num	Scoring	Standard	Answer
1		5.NBT.01	The digit is $\frac{1}{10}$ of the digit to the left.
2		5.MD.02	$\frac{1}{2}$ inch
3		5.MD.01	150 grams more
4		5.NF.06	[answers vary]
5		5.NF.04B	$\frac{5}{16}$ m <sup>2</sup>
6	a	5.NF.04A	$\frac{1}{20}$
7	d	5.MD.05B	5 ft
8	a	5.OA.01	6
9	c	5.NF.05A	100 × 60 is twice as much as 100 × 30 because 60 is twice as much as 30
10	c	5.MD.01	
11		5.NBT.07	1.77 mi.
12	b	5.G.02	(6, 4)
13	b	5.NF.07A	In the appliance store, $\frac{1}{6}$ of total sales were refrigerators. If 8 refrigerators were sold, what fraction of total sales was each refrigerator?
14	d	5.NBT.07	2.4 mi
15	c	5.NBT.07	\$7.50
16	d	5.NF.07B	84
17	c	5.NF.03	$\frac{1}{2}$
18	b	5.OA.02	$8 \times (7 + 6)$
19	d	5.NBT.04	\$9.01
20	c	5.NF.02	$\frac{17}{24}$
21		5.NBT.07	.98 lbs
22	c	5.OA.03	$x + 4$
23		5.OA.02	[answers vary]
24	d	5.G.02	(3, 10)
25	b	5.NBT.04	25.821
26		5.NBT.01	118,267,300; 118,270,000; 118,300,000; 120,000,000

27	c	5.NBT.03A	$\frac{11}{1000}$
28	d	5.NBT.03B	Mary, Jaunita, Sue, Shauna
29	d	5.G.04	
30	c	5.MD.05B	
31	d	5.MD.05C	The volume of Figure 2 is 13 cubic centimeters greater than the volume of Figure 4.