

Summer Math Packet for Students Entering 5th Grade**Mid-Year Review****Test Prep****Multiple Choice****Fill in the circle next to the correct answer.**

1. 13 thousands + 4 tens + 8 ones in standard form is _____. (Lesson 1.1)

(A) 1,348	(B) 10,348
(C) 13,048	(D) 13,480
2. In the number 83,415 the value of the digit 3 is _____. (Lesson 1.1)

(A) 30	(B) 300
(C) 3,000	(D) 30,000
3. 1,000 more than 37,568 is _____. (Lesson 1.2)

(A) 36,568	(B) 37,468
(C) 37,668	(D) 38,568
4. Estimate $681 - 307$ by rounding to the nearest 100. (Lesson 2.1)

(A) 300	(B) 370
(C) 374	(D) 400
5. Which is the greatest common factor of 27 and 45? (Lesson 2.2)

(A) 1	(B) 3
(C) 9	(D) 45
6. Which pair of numbers has both a prime and a composite number? (Lesson 2.2)

(A) 4 and 7	(B) 3 and 13
(C) 14 and 28	(D) 6 and 8

- 7.** What is the sum of the first two multiples of 6? (*Lesson 2.3*)
- (A) 3 (B) 6
(C) 12 (D) 18
- 8.** Mr. Finch exercises at the gym every two days. Mr. Chavez exercises at the gym every five days. When will they meet next if they first met on January 5? (*Lesson 2.3*)
- (A) January 7 (B) January 10
(C) January 15 (D) January 25
- 9.** Divide 5,613 by 7. The remainder is _____. (*Lesson 3.4*)
- (A) 1 (B) 6
(C) 18 (D) 81
- 10.** After using 35 jars to store 14 marbles each, Ali has 3 marbles left. How many marbles did he have at first? (*Lesson 3.5*)
- (A) 52 (B) 178
(C) 490 (D) 493
- 11.** The table shows the medals different teams won at a competition. (*Lesson 4.2*)

Number of Medals Won

Team	Gold	Silver	Bronze
Sandcastle	3	5	8
Coral Reef	6	1	5
Sunshine	2	4	3
Sea Horse	5	2	6

At which intersection was one medal won?

- (A) Sandcastle and Gold (B) Coral Reef and Silver
(C) Sunshine and Bronze (D) Seahorse and Silver

- 12.** Find the mode. (*Lesson 5.2*)

31 lb 36 lb 21 lb 40 lb 38 lb 40 lb

- (A) 31 lb (B) 36 lb
(C) 37 lb (D) 40 lb

- 13.** Jim ordered cans of fruit cocktail for his diner for 6 months. (*Lesson 5.3*)

Cans of Fruit Cocktail	
Stem	Leaves
2	6 9
3	1 3 3
4	0

$$2|6 = 26$$

What is the median number of cans he ordered?

- (A) 29 cans (B) 32 cans
(C) 33 cans (D) 40 cans

- 14.** A bag contains 5 yellow balls and 3 green balls. Choose the correct word to describe the likelihood of drawing a yellow ball from the bag. (*Lesson 5.4*)

- (A) Impossible (B) Certain
(C) More likely (D) Less likely

- 15.** Stacy draws one of these number cards from a bag.

12 8 5 16 10 3

What is the probability that she draws a number less than 10? (*Lesson 5.5*)

- (A) $\frac{1}{2}$ (B) $\frac{1}{3}$
(C) $\frac{2}{3}$ (D) $\frac{1}{6}$

16. Which two fractions have a sum of $\frac{9}{10}$? (Lesson 6.1)

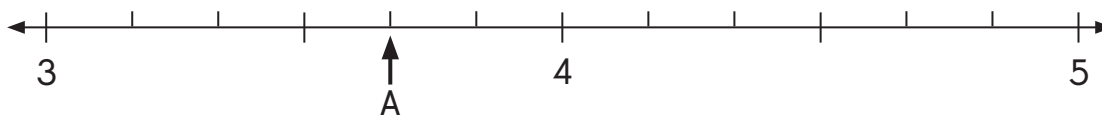
(A) $\frac{1}{2}$ and $\frac{4}{10}$

(B) $\frac{1}{2}$ and $\frac{1}{10}$

(C) $\frac{2}{5}$ and $\frac{1}{10}$

(D) $\frac{3}{4}$ and $\frac{6}{6}$

17. Which mixed number is represented by **A** on the number line? (Lesson 6.3)



(A) $3\frac{4}{5}$

(B) $3\frac{2}{3}$

(C) $4\frac{1}{3}$

(D) $4\frac{2}{3}$

18. How many fifths are in $2\frac{3}{5}$? (Lesson 6.4)

(A) 10

(B) 11

(C) 13

(D) 23

19. Express $\frac{14}{6}$ as a mixed number in simplest form. (Lesson 6.5)

(A) $1\frac{4}{6}$

(B) $1\frac{2}{3}$

(C) $2\frac{2}{6}$

(D) $2\frac{1}{3}$

20. Ms. Lee cut a piece of yarn into different fractional parts:

$\frac{1}{12}$, $\frac{1}{4}$ and $\frac{5}{12}$. What fraction of the yarn is left? (Lesson 6.7)

(A) $\frac{1}{4}$

(B) $\frac{5}{12}$

(C) $\frac{8}{12}$

(D) $\frac{3}{4}$

Short Answer

Read each question carefully. Write your answer in the space provided. Give your answers in the correct units.

- 21.** Write forty thousand, sixteen in expanded form. (Lesson 1.1)

- 22.** Arrange the numbers in order from least to greatest. (Lesson 1.2)

6,407

19,999

6,047

20,005

- 23.** Estimate the quotient of $713 \div 9$. (Lesson 2.1)

- 24.** The table shows the number of people who visited the space ride at a theme park. Complete the table. (Lesson 4.2)

Number of Visitors at the Space Ride

	Male	Female	Total
Adults	18		50
Children	32	38	

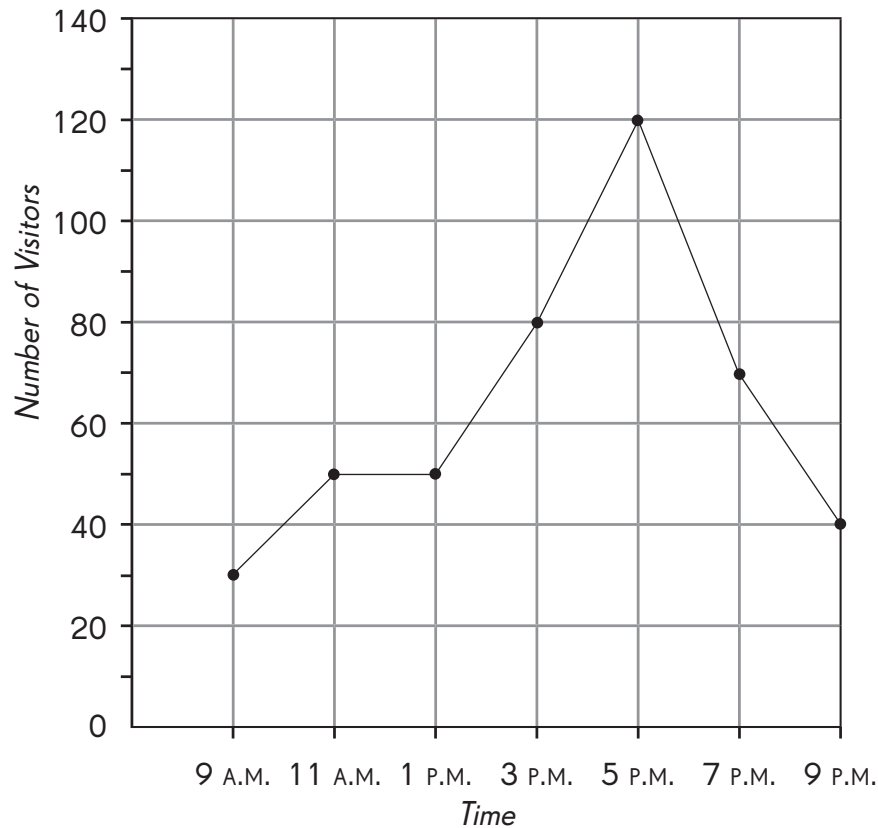
Use the table to answer Exercises 25 and 26.

- 25.** How many people visited the space ride? (Lesson 4.2) _____

- 26.** What fraction of the people who visited the space ride were children? (Lesson 6.7)

The line graph shows the number of visitors at a museum during the course of a day. (Lesson 4.3)

Visitors at a Museum



- 27.** By how much did the visitor population increase from 1:00 P.M. to 3:00 P.M.? _____
- 28.** During which interval did the visitor population decrease the most?

- 29.** During which interval did the same number of visitors arrive and depart?

Use the line plot to solve Exercises 30 and 31. (Lesson 5.2)

The line plot shows the number of siblings each student in John's class has.



30. Find the median of the set of data. _____

31. Find the mode of the set of data. _____

Use the stem-and-leaf plot to solve Exercises 32 and 33. (Lesson 5.3)

The stem-and-leaf plot shows the number of orchids produced by 10 greenhouse plants in one month.

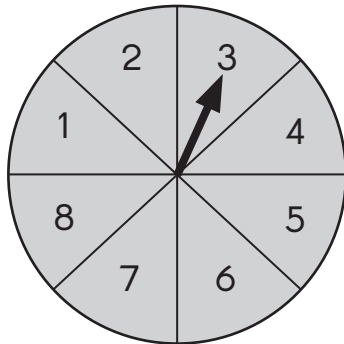
Number of Orchids	
Stem	Leaves
0	8 9
1	5 5 6
2	0 2 3 4
3	9

$$0|8 = 8$$

32. The median of the set of data is _____.

33. The outlier of the set of data is _____.

Look at the spinner. Write *more likely*, *less likely*, *equally likely*, *certain*, or *impossible*. Explain your answer. (Lesson 5.4)

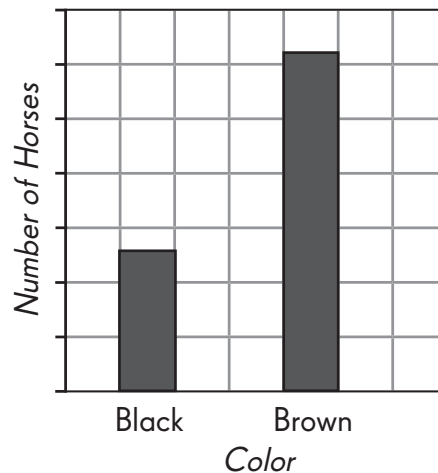


- 34.** The spinner is _____ to land on an odd number or an even number.

Reason: _____

The bar graph shows the color of the horses at a horse show.

Color of Horses at a Show



- 35.** Which set is more likely to be the one shown in the bar graph? (Lesson 5.4)

Color of Horses at a Show

Color	Black	Brown
Set A	5	3
Set B	10	10
Set C	15	34

Answer each question.

- 36.** A bag has 5 red beads, 8 green beads, and 4 yellow beads. What is the probability of drawing a yellow bead from the bag? (*Lesson 5.5*)

- 37.** Find the sum of $\frac{1}{6}$, $\frac{1}{6}$, and $\frac{2}{3}$. (*Lesson 6.1*)

- 38.** What is $1\frac{1}{4} - \frac{5}{8}$? (*Lesson 6.6*)

- 39.** A container and 6 lemons have a total weight of $\frac{4}{5}$ pound. Two lemons have a total weight of $\frac{1}{10}$ pound. Find the weight of the container if all the lemons have the same weight. (*Lesson 6.8*)
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Extended Response

Solve. Show your work.

- 40.** A clinic needs 1,350 chairs for a charity event. Three stores donate chairs. Store A donates 216 chairs, Store B donates 420 chairs, and Store C donates 376 chairs. Does the clinic have enough chairs? Decide if you need to find an estimate or an exact answer. (*Lesson 2.1*)
- 41.** Barrie had some stamps. He gave $\frac{1}{8}$ of them to Tom. If he gave 15 stamps to Tom, how many stamps did he have at first? (*Lesson 6.8*)

43. A factory packages 4,250 boxes of cereal. The number of oat cereal boxes is 715 more than the number of wheat cereal boxes. The number of fruit cereal boxes is 5 times the number of wheat cereal boxes. How many fruit cereal boxes does the factory package? (*Lesson 3.5*)

44. Three people guess the number of cherries in a bag, rounded to the nearest 10. Alex guesses 80 cherries, Jess guesses 60 cherries, and Nia guesses 70 cherries. The actual number is a multiple of 7. The sum of the digits of the number is 9. Who guessed correctly? (*Lesson 2.1 and 2.2*)

End-of-Year Review

Test Prep

Multiple Choice

Fill in the circle next to the correct answer.

1. The digit 9 in 89.4 stands for _____. (Lesson 7.2)
- (A) 9 hundredths (B) 9 tenths
(C) 9 ones (D) 9 tens
2. Find $9.50 - 2.63$. (Lesson 8.2)
- (A) 5.07 (B) 5.73
(C) 6.67 (D) 6.87
3. The product of 9 and _____ is 1,107. (Lesson 3.1)
- (A) 123 (B) 1,098
(C) 1,116 (D) 9,963
4. The table shows the number of fruit and biscuits a group of students have. Some numbers in the table are missing. Use the information in the table to answer the question. (Lesson 4.1)

Name	Number of Fruit	Number of Biscuits	Total
Annabel	25	34	59
Mandy	12	26	38
Crystal		17	

The total number of fruit and biscuits is 120. How many fruit does Crystal have?

- (A) 6 (B) 23
(C) 37 (D) 97

5. The stem-and-leaf plot shows the points scored by Jason in nine basketball games. (Lesson 5.3)

Jason's Scores	
Stem	Leaves
1	0 2 9
2	3 6 6 7
3	4
4	0

What is the outlier of the set of data?

- (A) 40 (B) 26
(C) 23 (D) 10
6. Peter draws one of these number cards from a bag. (Lesson 5.5)

4	1	12	7	23	10
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What is the probability that he draws a number less than 10?

- (A) $\frac{1}{2}$ (B) $\frac{1}{3}$
(C) $\frac{1}{4}$ (D) $\frac{1}{6}$
7. Subtract $\frac{2}{4}$ from $\frac{7}{12}$. Express your answer in simplest form. (Lesson 6.2)

- (A) $\frac{1}{12}$ (B) $\frac{2}{15}$
(C) $\frac{2}{5}$ (D) $\frac{11}{15}$

8. $4\frac{3}{5} = \underline{\hspace{2cm}}$ (Lesson 6.3)

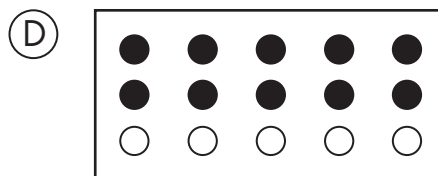
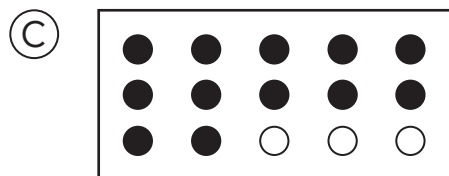
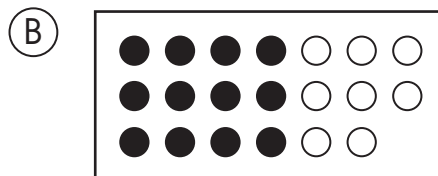
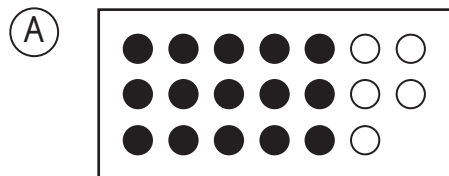
(A) $\frac{12}{5}$

(B) $\frac{20}{5}$

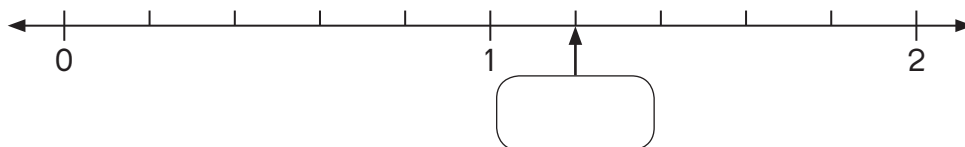
(C) $\frac{23}{5}$

(D) $\frac{43}{5}$

9. Which of the shaded parts represents $\frac{4}{5}$ of a set? (Lesson 6.7)



10.



The arrow is pointing at _____. (Lesson 7.1)

(A) 0

(B) 1.2

(C) 1.3

(D) 4

- 11.** Ava's mass is 45.0 kilograms when rounded to 1 decimal place. What is her least possible mass? (*Lesson 7.4*)

(A) 45.01 kilograms (B) 44.95 kilograms
(C) 44.99 kilograms (D) 44.55 kilograms

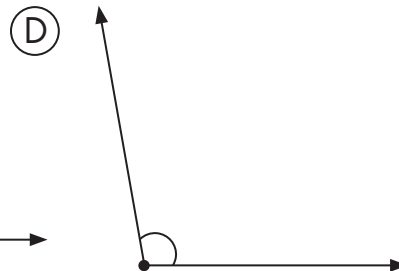
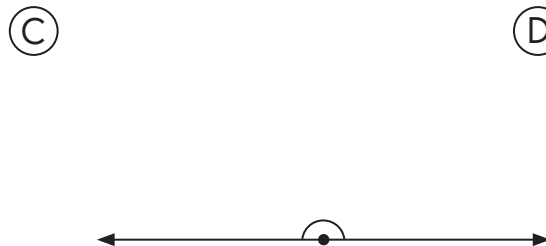
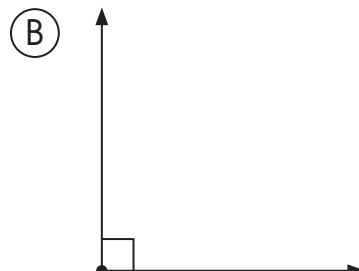
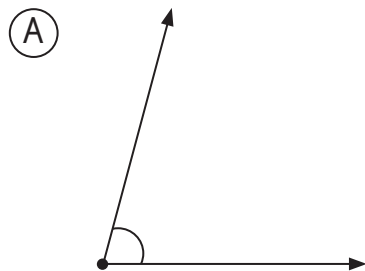
- 12.** 0.55 is not equal to _____. (*Lesson 7.5*)

(A) $\frac{11}{20}$ (B) $\frac{55}{100}$
(C) $\frac{550}{1,000}$ (D) $\frac{55}{10}$

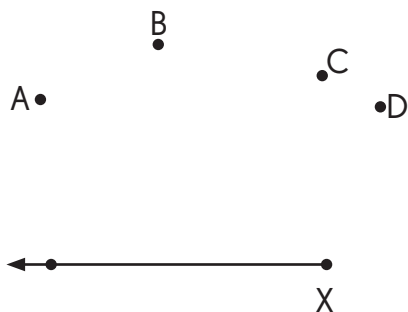
- 13.** $4.6 - 0.46$ is equal to _____. (*Lesson 8.2*)

(A) 0 (B) 4.14
(C) 4.20 (D) 4.26

- 14.** Which of these angles is an acute angle? (*Lesson 9.1*)



15.

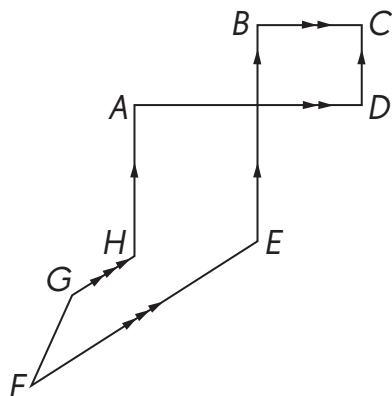


Sam needs to draw an angle of 125° from point X .
He must join point X to point _____. (Lesson 9.2)

Ⓐ A Ⓑ B Ⓒ C Ⓓ D

16.

Refer to the figure to answer Exercises 15 and 16.



Which line segment is perpendicular to $\overline{AH}$? (Lesson 10.1)

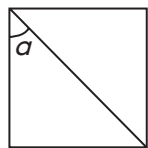
Ⓐ HG Ⓑ BE Ⓒ FE Ⓓ AD

17.

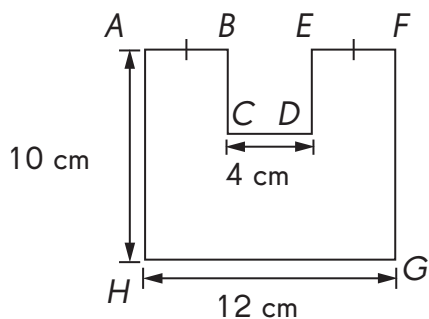
Which line segment is parallel to $\overline{CD}$? (Lesson 10.2)

Ⓐ AD Ⓑ GH Ⓒ BE Ⓓ FG

18. In the square below, find the measure of $\angle a$. (Lesson 11.2)

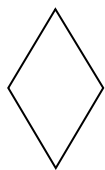


- (A) 30° (B) 45°
(C) 60° (D) 90°
19. The perimeter of a rectangle is 24 centimeters.
The length of one of its sides is 5 centimeters.
What is the area? (Lesson 12.1)
- (A) 7 cm^2 (B) 14 cm^2
(C) 35 cm^2 (D) 49 cm^2
20. All line segments on the figure meet at right angles.
Find EF . (Lesson 12.1)



- (A) 4 cm (B) 6 cm
(C) 8 cm (D) 10 cm

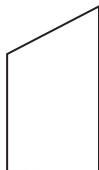
21. Which pair of figures are symmetric? (*Lesson 13.1*)



A



B



C



D

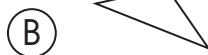
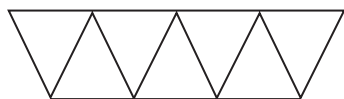
(A) A and B

(B) B and C

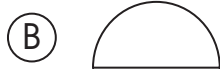
(C) C and D

(D) D and A

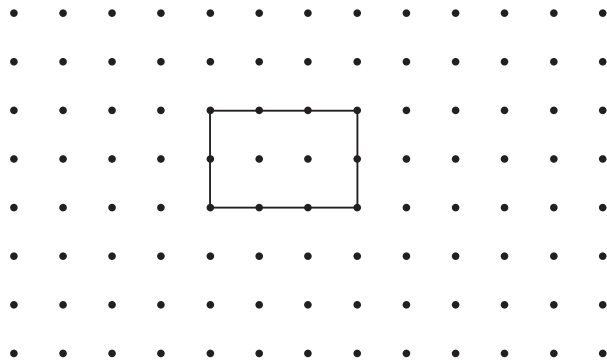
22. What is the repeated shape used in the tessellation? (*Lesson 14.1*)



23. Which of these shapes has rotational symmetry? (*Lesson 13.2*)

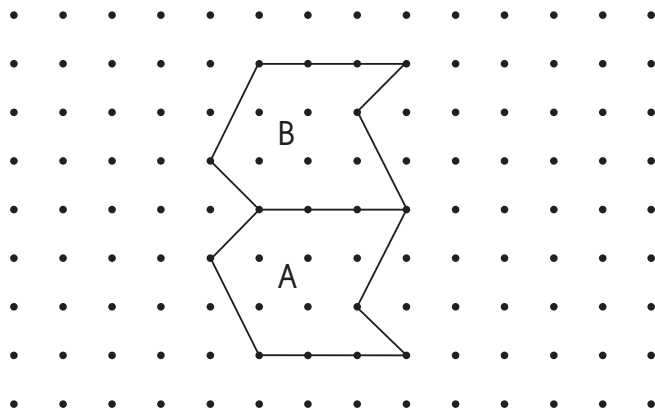


24. This shape can be tessellated by _____. (Lesson 14.2)



- | | |
|------------------------------------|--|
| ☐ (A) sliding | ☐ (B) rotation |
| ☐ (C) flipping | ☐ (D) All of the above |

25.



From position A to B, the unit shape has been _____.

- | | |
|-----------------------------------|---|
| ☐ (A) slid | ☐ (B) rotated |
| ☐ (C) flipped | ☐ (D) none of the above |

Short Answer

**Read each question carefully. Write your answers in the space given.
Give your answers in the correct units.**

- 26.** I am a number between 30 and 50. I am a multiple of 8.
My greatest common factor with 25 is 5.
What number am I? (*Lessons 2.2 and 2.3*)

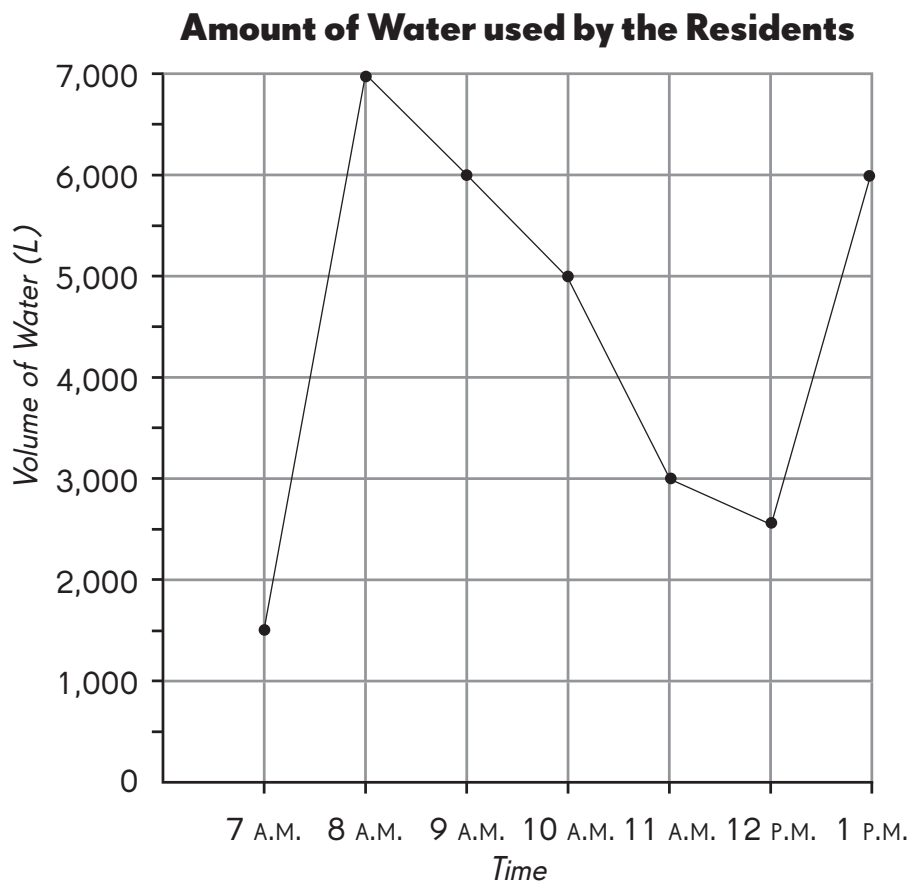
- 27.** The table shows the number of marbles Anthony and Michelle have.
Complete the table and answer the questions. (*Lesson 4.1*)

	Red Marbles	Blue Marbles	Total
Anthony	18	26	
Michelle	37		61

- a.** What was the total number of red marbles?

- b.** What fraction of the total number of marbles were blue?

- 28.** The graph shows the amount of water used by the residents of an apartment block over a morning. (*Lesson 4.3*)



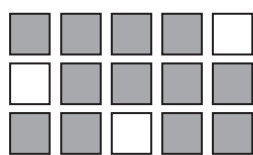
- a.** At which two times was the same amount of water used?
- b.** At what time was the amount of water used twice that used at noon?
- 29.** A bag has 5 pink balls, 8 yellow balls, and 4 blue balls. What is the probability of drawing a pink ball from the bag? (*Lesson 5.5*)

- 30.** What is $\frac{7}{12} - \frac{2}{6}$? Express your answer in simplest form. (*Lesson 6.2*)

31. Express $\frac{30}{7}$ as a mixed number. (Lesson 6.5)

32. Find the difference between $\frac{5}{8}$ and 3. (Lesson 6.6)

33. How many grey squares must be replaced by white squares so that $\frac{2}{3}$ of the total number of squares are grey? (Lesson 6.7)



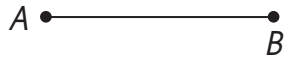
34. What is the number in the box? (Lesson 7.2)

$$6.34 = 6 + 0.3 + \boxed{}$$

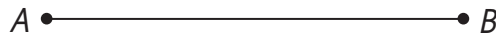
35. Li Li is 1.85 meters tall. Round her height to the nearest tenth of a meter. (Lesson 7.4)

36. Express $5\frac{6}{25}$ as a decimal. (Lesson 7.5)

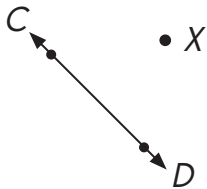
- 37.** Draw and label a line segment BC such that the measure of angle ABC is 167° . Line segment AB is given. (Lesson 9.2)



- 38.** Draw a line segment perpendicular to AB through point O . (Lesson 10.1)

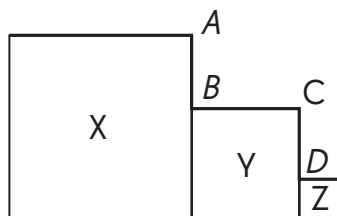


- 39.** Draw a line parallel to $\overleftrightarrow{CD}$ passing through point X . (Lesson 10.2)



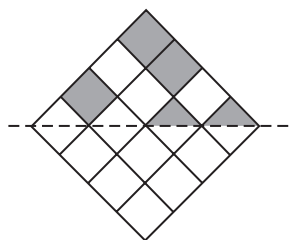
- 40.** AB is a vertical line segment and BC is a horizontal line segment. Find the measure of $\angle ABC$. (Lesson 10.3)

- 41.** Look at the figure below to answer the question. (*Lesson 12.3*)

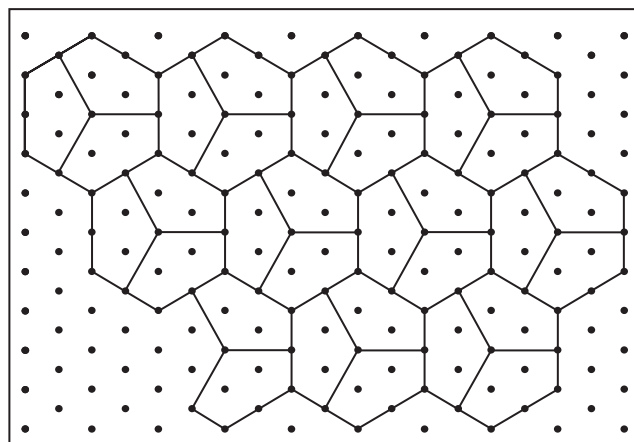


X, Y, and Z are squares. The length of each side of X is 5 centimeters and the length of each side of Y is 3 centimeters. $AB = CD$. Find the total length of the thick lines in the figure.

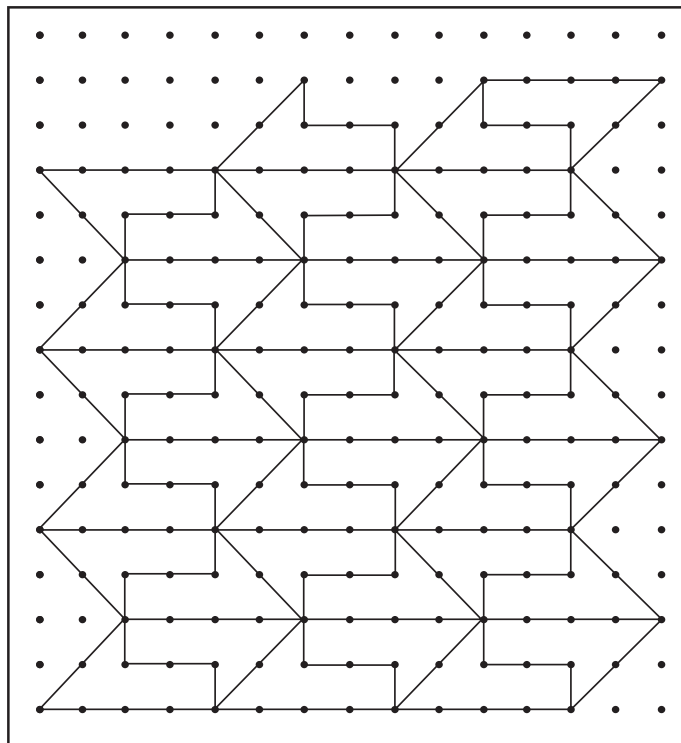
- 42.** Shade some squares and half-squares to make a symmetric pattern in the figure. (*Lesson 13.3*)



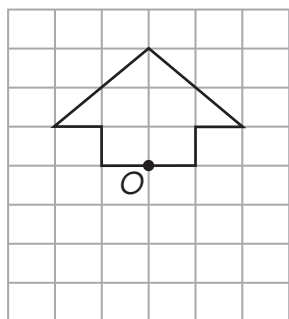
- 43.** In the tessellation below, the unit shape is . Extend the tessellation in the space provided by adding four more unit shapes. (*Lesson 14.2*)



- 44.** Complete the tessellation by adding three more unit shapes. (*Lesson 14.2*)



- 45.** Complete the figure so that it has rotational symmetry about point O . (*Lesson 13.3*)



- 46. a.** Does the word N O have rotational symmetry? (*Lesson 13.3*)

- b.** Fill in the box with a letter so that N O will have rotational symmetry. (*Lesson 13.3*)

Extended Response

Solve. Show your work.

- 47.** Jane used $\frac{1}{4}$ of the flour to make biscuits.

She used $\frac{1}{2}$ of the flour to bake a cake.

What fraction of the flour was left?

- 48.** Mr. Lim has some savings. If he gives \$40 to one brother, he will have \$6,145 left. But he decides to give all his savings to his 5 brothers equally. How much will each brother get?

- 49.** Rita bought fabric and ribbon from a store. The ribbon cost \$18.50. Rita paid the cashier \$50.00 and received change of \$5.25. How much did the fabric cost?

- 50.** The area of a rectangle is 98 square centimeters, and its width is 7 centimeters. Find the length.

- 51.** Richard planted some grass on a rectangular plot of land which measures 12 meters by 8 meters. He left a margin of 0.5 meters around the grass, as shown in the figure below. Find the area of land covered by grass. (*Lesson 12.4*)

