Dear Incoming 5th Grade Students,

The attached packet is intended to help you prepare for 5th grade math. It should be a review of concepts learned in 4th grade. Some of the questions have a star next to them. These questions may be an extra challenge. It is ok if you get these questions wrong however, you are expected to TRY them. Questions without stars next to them should be completed as well.

There are also pages to practice your math facts over the summer. It is important to your success that these math facts be memorized before you enter 5th grade. This should be completed WITHOUT a calculator.

I look forward to being your math teacher next year!

In Christ,
Mrs. Jacobs

Name: _____ Date: _____

Benchmark Assessment 1
for Chapters 1 to 4

50
Suggested Time: 45 min

Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

1. The value of the digit 7 in 65,726 is

Ⓐ 70,000 Ⓑ 7,000 Ⓒ 700 Ⓓ 70

2. _____ is 100 less than 39,462.

Ⓐ 29,462 Ⓑ 38,462 Ⓒ 39,562 Ⓓ 39,362

3. 35,642 = 35,000 + ☐ + 40 + 2

What is the missing value in ☐?

Ⓐ 6,000 Ⓑ 5,000 Ⓒ 600 Ⓓ 42

4. Add 21,352 and 6,588.

Ⓐ 14,764 Ⓑ 27,940 Ⓒ 44,528 Ⓓ 87,232

5. Estimate the difference between 8,735 and 5,623 using front-end estimation.

Ⓐ 13,000 Ⓑ 4,000 Ⓒ 3,000 Ⓓ 2,000

Name: _____ Date: _____

6. Which of these numbers is a prime number?

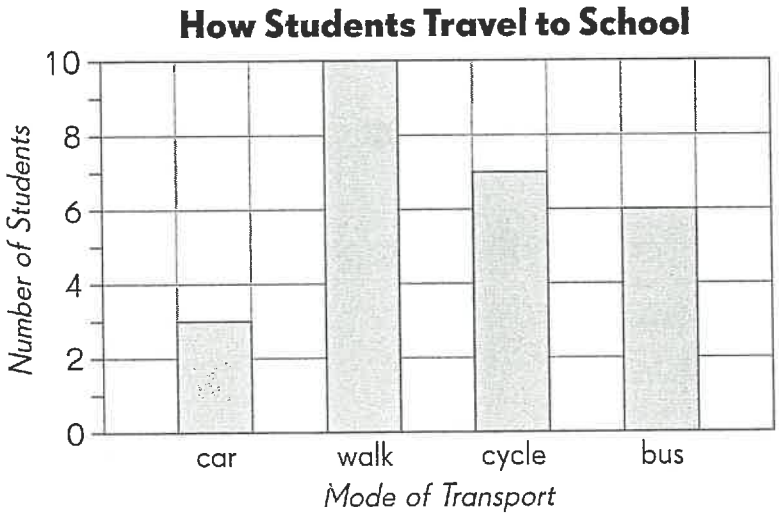
(A) 89 (B) 27 (C) 63 (D) 135

7. Divide 6,438 by 5. What is the remainder?

(A) 6,433 (B) 1,287 (C) 3 (D) 2

Use the data in the graph to answer Exercises 8 and 9.

The bar graph shows the results of a survey on how students travel to school.



8. How many more students walk to school than arrive by car?

(A) 10 (B) 8 (C) 7 (D) 3

9. How many students were surveyed?

(A) 26 (B) 16 (C) 13 (D) 6

Name: _____ Date: _____

10. The graph shows the amount of money collected by a game booth in a week.

Mon.	Tue.	Wed.	Thu.	Fri.
150	220	330	150	400

Between which two days was there an increase of $110 collected?

(A) Monday to Tuesday
(B) Tuesday to Wednesday
(C) Wednesday to Thursday
(D) Thursday to Friday

Short Answer

(10 × 2 points = 20 points)

Solve.

11. Write in word form.

18,306 _____

_____

12. Write a number greater than 23,562. The number must have 3 in its hundreds place. It must have a digit in its thousands place that is greater than the thousands place digit in 23,562.

_____

13. Continue the number pattern.

22,963 21,963 20,963 _____

14. Find the common factors of 42 and 56.

_____

Name: _____ Date: _____

15. Find 803 × 32. (Use area model to find the answer.)

16. Find the least common multiple of 30 and 12.

_____

17. Find 2,619 ÷ 7.

_____

18. The table shows the number of five-dollar and ten-dollar bills two boys saved from selling lemonade. Complete the table and answer the questions.

a.

Name	$5		$10		Total
	Number	Amount	Number	Amount	
Clyde	3	$15		$50	
Zavier	5		3	$30	

b. Who has more money?

_____

c. How much more money does he have?

_____

Name: _____ Date: _____

Extended Response

(Questions 19 and 20: 2 × 3 points = 6 points, Question 21: 4 points)

Solve. Show your work.

19. Mr. Clark has a tank that holds 55,000 milliliters of gas. He poured some gas into three containers equally. There were 19,864 milliliters of gas left in the tank.

a. How much gas was poured out of the tank?

b. How much gas was poured into each container?

Name: _____ Date: _____

20. Cindy wants to divide 16 apples and 24 oranges into the greatest number of groups possible. The number of apples in each group has to be the same. The number of oranges in each group has to be the same. How many of each fruit will each group have?

*** 21.** A drawer has some red, green, and blue marbles. There are 33 marbles. There are 4 times as many red marbles as green marbles. There are half as many blue marbles as green marbles. How many marbles of each color are in the drawer? (Use different letters to represent unknown numbers.)

Name: _____ Date: _____

Bonus Questions

Solve. Show your work.

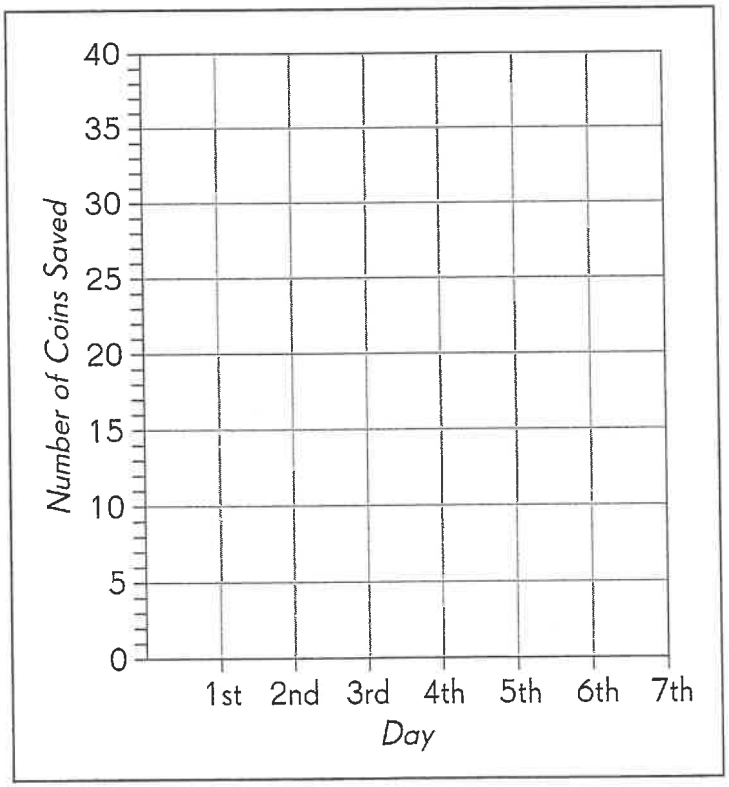
1. A farmer owns some goats and chickens. He counts 144 legs on his farm. The number of chickens is 4 times the number of goats. How many chickens are on the farm?

Name: _____ Date: _____

2. Samantha saved a total of 140 coins in 7 days. Each day she saved 5 coins more than what she saved the day before. For example, if she saved 8 coins on the second day, she saved 13 new coins on the third day.

a. How many coins did she save on the first day?

b. Show the number of coins Samantha saved each day in a graph.



Name: _____ Date: _____

Benchmark Assessment 2

for Chapters 7 to 11

50

Suggested Time: 45 min

Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

1. Which decimal is the greatest?

Ⓐ 3.97 Ⓑ 8.09 Ⓒ 10.2 Ⓓ 19.1

2. Which fraction is equivalent to 8.25 and in its simplest form?

Ⓐ $8\frac{25}{10}$ Ⓑ $8\frac{1}{4}$ Ⓒ $82\frac{5}{100}$ Ⓓ $8\frac{2}{5}$

3. Subtract 6.07 from 15.

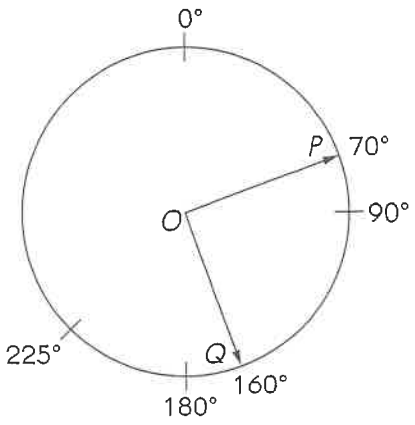
Ⓐ 4.57 Ⓑ 8.93 Ⓒ 9.07 Ⓓ 21.07

4. Angie has $6.59. Her sister has $1.85 less than her. How much do they have altogether?

Ⓐ $4.74 Ⓑ $8.44 Ⓒ $11.33 Ⓓ $15.03

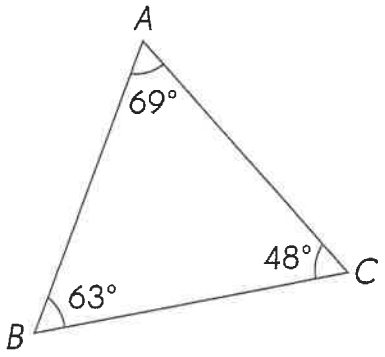
5. What fraction of a full circle is the measure of $\angle POQ$?

Ⓐ $\frac{7}{36}$ Ⓑ $\frac{4}{9}$ Ⓒ $\frac{1}{5}$ Ⓓ $\frac{1}{4}$



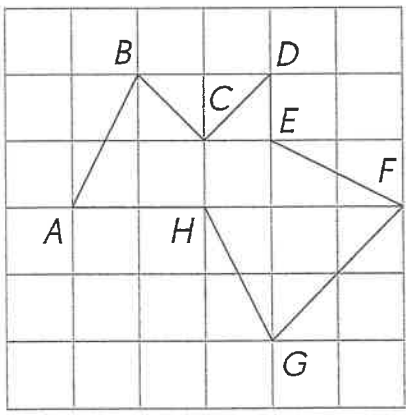
Name: _____ Date: _____

6. What is the difference between the measures of angles *ACB* and *BAC*? This figure may not be drawn to scale.



Ⓐ 117° Ⓑ 21° Ⓒ 15° Ⓓ 6°

7. Name a pair of perpendicular line segments in the figure. Use a protractor or a straightedge and a drawing triangle to help you.

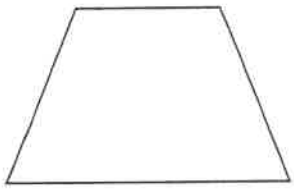


Ⓐ $\overline{CD}$ and $\overline{BC}$ Ⓑ $\overline{DE}$ and $\overline{EF}$

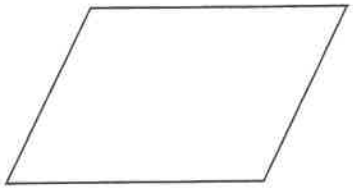
Ⓒ $\overline{EF}$ and $\overline{FG}$ Ⓓ $\overline{AB}$ and $\overline{BC}$

Name: _____ **Date:** _____

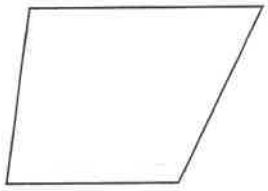
8. Which figure has two pairs of parallel line segments?

Ⓐ 

trapezoid

Ⓑ 

parallelogram

Ⓒ 

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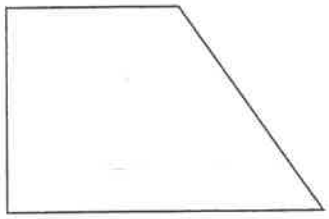
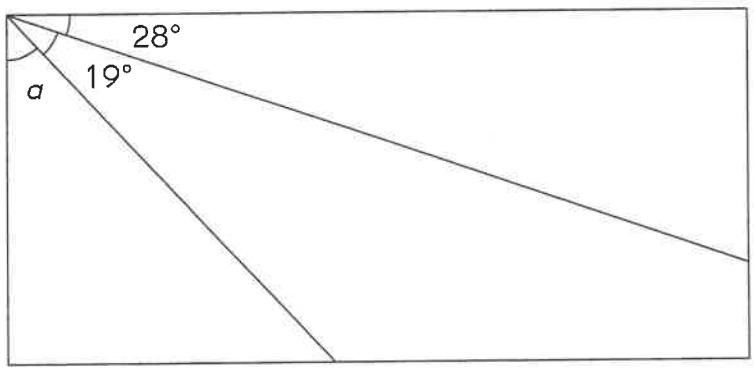
Ⓓ 

trapezoid

9. This figure may not be drawn to scale. Find the measure of the unknown angle in the rectangle.



Ⓐ 43°

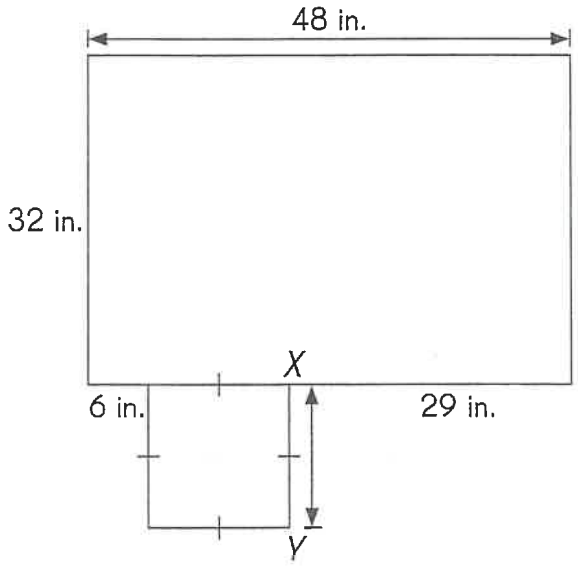
Ⓑ 47°

Ⓒ 62°

Ⓓ 71°

Name: _____ Date: _____

10. The figure is made up of a square and a rectangle. Find the length of $\overline{XY}$.



(A) 42 in.

(B) 19 in.

(C) 16 in.

(D) 13 in.

Short Answer

(10 × 2 points = 20 points)

Fill in the blanks.

11. Write a decimal to make the statement true.

$6.15 >$ ☐

12. Write the mixed number as a decimal.

$11\frac{7}{20} =$ _____

13. Add.

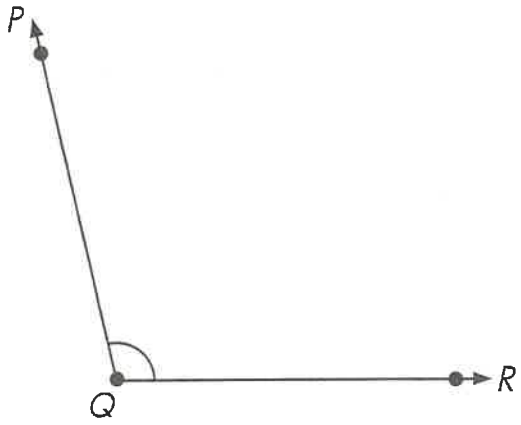
$17.3 + 0.95 + 3 =$ _____

Name: _____ Date: _____

Solve.

14. Brandon is 1.63 meters tall. He is 0.07 meter taller than Kris. Kris is 0.18 meter taller than Shelly. How tall are Kris and Shelly?

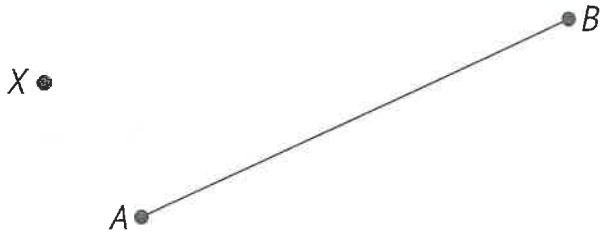
15. Name and measure the angle shown below.



***16.** Draw an angle that is between $\frac{1}{4}$ -turn and $\frac{1}{2}$ -turn and label it $\angle XYZ$. Is it an acute angle or an obtuse angle?

Name: _____ Date: _____

17. Draw a line segment parallel to $\overline{AB}$ through point X.



18. Figure A is made up of a rectangle inside of a square. Use a protractor and a straightedge to complete the figure on the right to form a figure identical to Figure A.

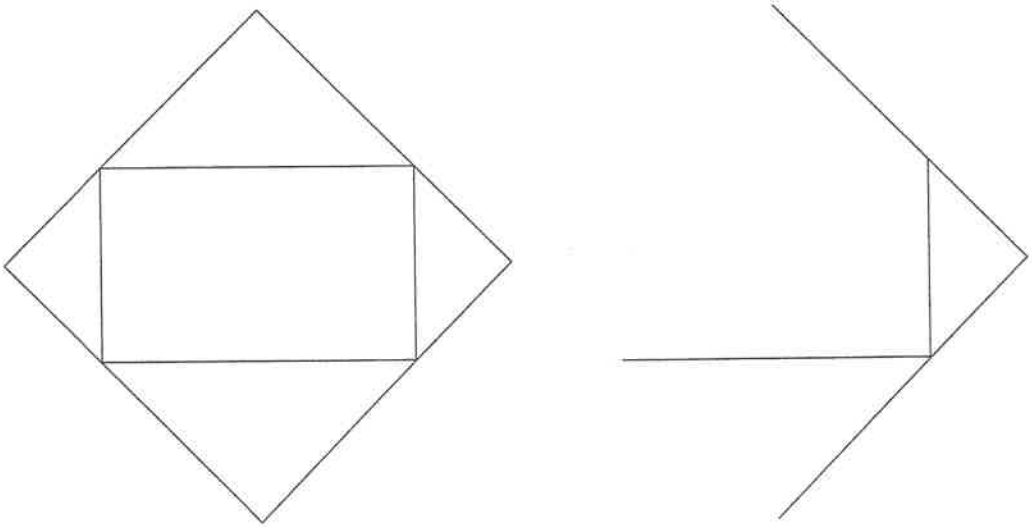
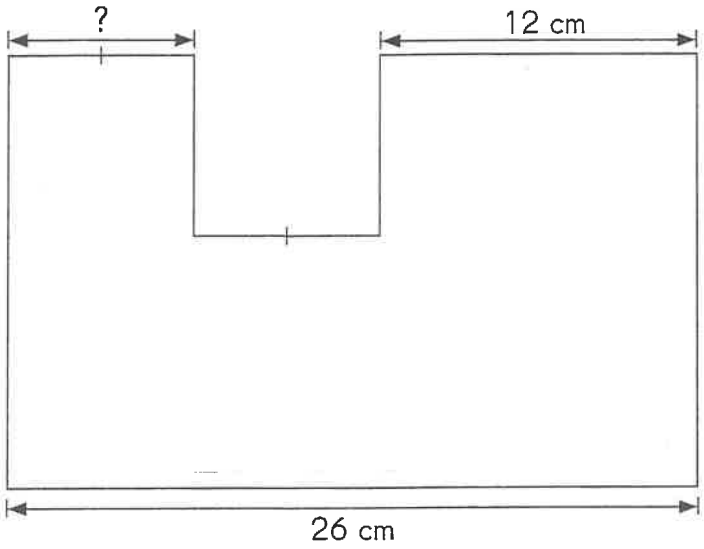


Figure A

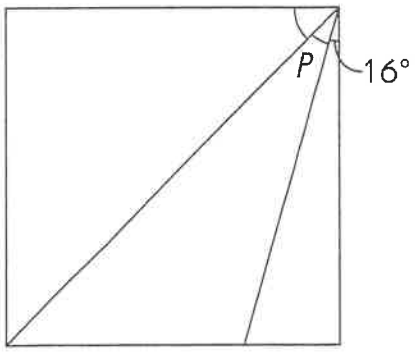
Name: _____ **Date:** _____

19. What is the missing length?



_____

20. The figure below is a square. This figure may not be drawn to scale. Find the measure of angle *p*.



Measure of angle p = _____

Name: _____ Date: _____

Extended Response

(Exercise 21 and Exercise 22: 2 × 3 points = 6 points, Exercise 23: 4 points)

Solve. Show your working.

21. Alex has $1\frac{1}{5}$ pounds of grapes and 3.68 pounds of oranges. What is the total weight of the fruits? Give your answer as a decimal rounded to the nearest tenth.

22. Draw a line segment BC such that the measure of angle ABC is 130°. Then draw line segment CD such that the measure of angle BCD is 65°.

23. Draw a rectangle, $ABCD$, that measures 6 centimeters by 5 centimeters. $\overline{AB}$ is given.

Name: _____ Date: _____

Bonus Questions

Follow the directions.

1. Decimal points are missing from each of the number statements. Fill in the missing decimal points. There are a total of 5 missing decimal points.

a. $21 + 604 = 8.14$

_____

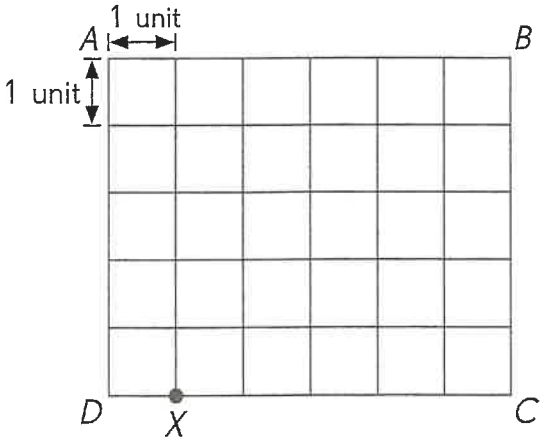
b. $5846 \times 100 = 5,846$

_____

c. $896 - 125 = 88.35$

_____

2. Jill is standing at position X in the grid below. Read the statements below to track her path. Fill in the blanks with *parallel* or *perpendicular* and either $\overline{AB}$, $\overline{BC}$, $\overline{CD}$, or $\overline{AD}$. Then mark Jill's final position.



Jill walks 2 units parallel to $\overline{AD}$, makes a $\frac{1}{4}$ -turn to the right, and walks 3 units perpendicular to $\overline{BC}$. Then she makes a $\frac{3}{4}$ -turn to her left and skips 1 unit. Jill is skipping parallel to _____. Then she makes a $\frac{1}{2}$ -turn and runs 4 units _____ to $\overline{BC}$.

Name: _____ Date: _____

End-of-Year Test

50
Suggested Time: 45 min

Multiple Choice

(10 × 2 points = 20 points)

Fill in the circle next to the correct answer.

1. Which number is eighty thousand, sixty-seven?

Ⓐ 86,700 Ⓑ 80,670 Ⓒ 86,007 Ⓓ 80,067

2. Find the answer to $\frac{759}{6}$.

Ⓐ 12 R 39 Ⓑ 120 R 9 Ⓒ 126 R 3 Ⓓ 126 R 5

The table shows the number of buns and muffins sold at two bakeries.

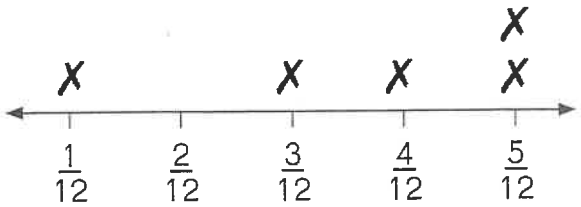
Bakery	Buns 80¢ each		Muffins $2 each	
	Number of buns sold	Amount of money collected	Number of muffins sold	Amount of money collected
A	18			$24
B	25		15	

3. How much money did the two bakeries collect in all?

Ⓐ $38.40 Ⓑ $50 Ⓒ $70 Ⓓ $88.40

Name: _____ Date: _____

Some students threw darts at a target to score points at a fun fair. The line plot shows the distance away from the target each dart landed in inches.



Distance from Target (in.)

Each ✗ represents 1 student.

4. How far was the farthest dart away from the target?

Ⓐ $\frac{1}{12}$ in. Ⓑ $\frac{2}{12}$ in. Ⓒ $\frac{4}{12}$ in. Ⓓ $\frac{5}{12}$ in.

***5.** $\frac{2}{9}$ of a number is 18. What is $\frac{1}{3}$ of the number?

Ⓐ 6 Ⓑ 9 Ⓒ 27 Ⓓ 81

6. What is 3 tenths more than 5.21?

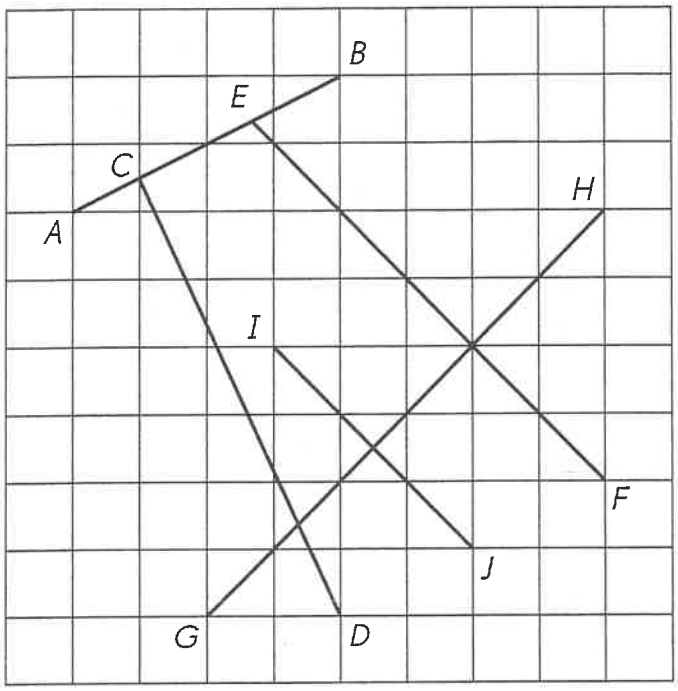
Ⓐ 8.21 Ⓑ 5.51 Ⓒ 5.24 Ⓓ 5.54

7. A bench is 3.15 yards in length. It is 1.89 yards longer than an iron chain. What is their total length?

Ⓐ 1.26 yd Ⓑ 4.41 yd Ⓒ 5.04 yd Ⓓ 6.32 yd

Name: _____ **Date:** _____

8. Which pairs of line segments are perpendicular to each other?



Ⓐ $\overline{AB}$ and $\overline{CD}$

Ⓑ $\overline{EF}$ and $\overline{IJ}$

Ⓒ $\overline{GH}$ and $\overline{AB}$

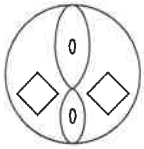
Ⓓ $\overline{CD}$ and $\overline{GH}$

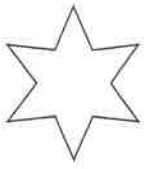
*** 9.** The length of a rectangle is 5 times its width. The sum of the length and width is 30 centimeters. What is the length of the rectangle?

Ⓐ 5 cm Ⓑ 6 cm Ⓒ 25 cm Ⓓ 36 cm

10. Which of these figures does not show line symmetry?

Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Name: _____ Date: _____

Short Answer

(10 × 2 points = 20 points)

11. Complete the number pattern.

16,350 17,000 17,650 _____ _____

12. Find the least common multiple of 6 and 8.

The table shows the amount of money saved by Paterson in 5 weeks.

Week	Amount of money saved ($)
1	50
2	105
3	75
4	120
5	85

13. **a.** When did his savings increase the most?

From week _____ to week _____.

b. How much did he save from week 3 to week 5?

$_____

Name: _____ Date: _____

14. A paper was divided into 12 equal parts. Sam used different colors to color some of these parts. He used blue to color 3 parts and red to color 6 parts. What fraction of the paper was not colored? Give your answer in the simplest form.

_____

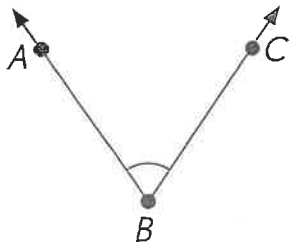
15. Terence has 64 stamps. Of his stamps, 12 are from Europe and $\frac{1}{4}$ are from Africa. The rest are from Asia. What fraction of his stamps are from Asia? Give your answer in the simplest form.

_____

16. Write 6.85 as an improper fraction in its simplest form.

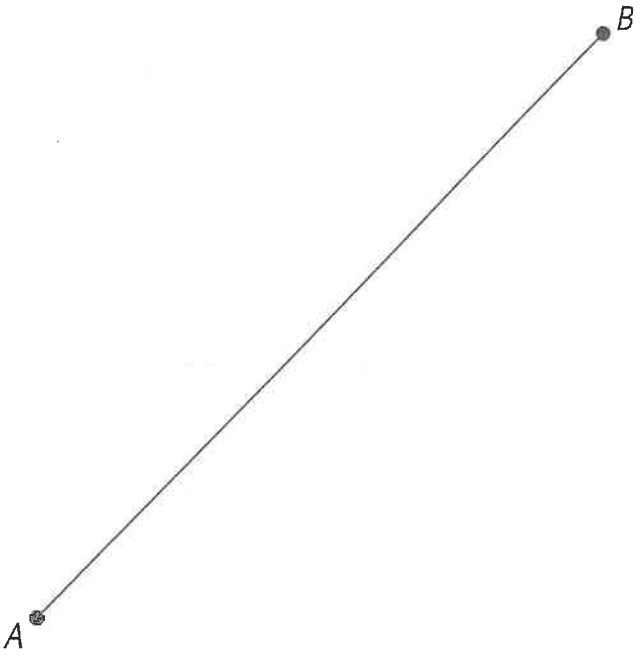
_____

17. Use a protractor to draw an angle 12° larger than the given angle. Label your angle *STU*.

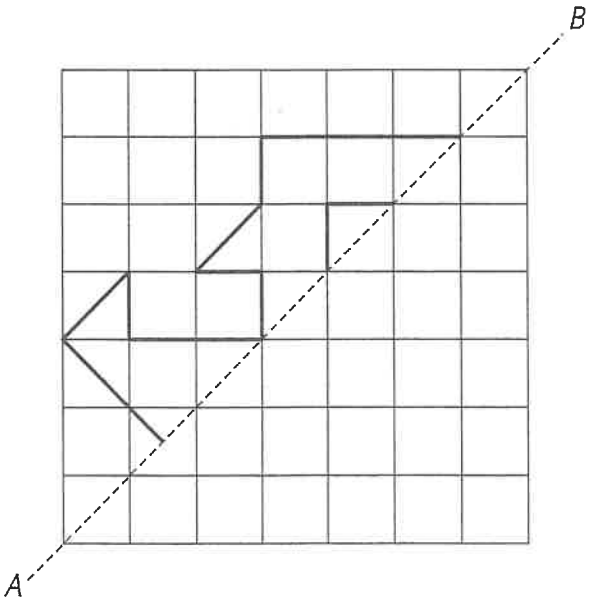


Name: _____ Date: _____

18. Use a drawing triangle or a protractor and a straightedge to draw a line segment perpendicular to $\overline{AB}$ and label it $\overline{XY}$. Then draw a line segment parallel to $\overline{XY}$ and label it $\overline{CD}$.

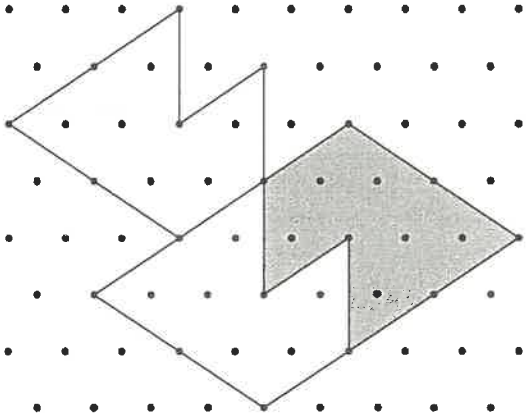


19. Complete the figure to make it symmetric about the line *AB*.



Name: _____ Date: _____

20. Add four more of the repeated shape to the tessellation.



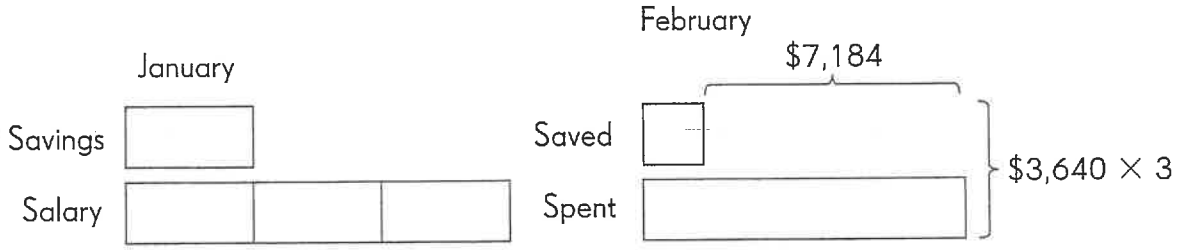
Name: _____ Date: _____

Extended Response

(Exercise 21 and 22: 2 × 3 points = 6 points; Exercise 23: 4 points)

Solve. Show your work.

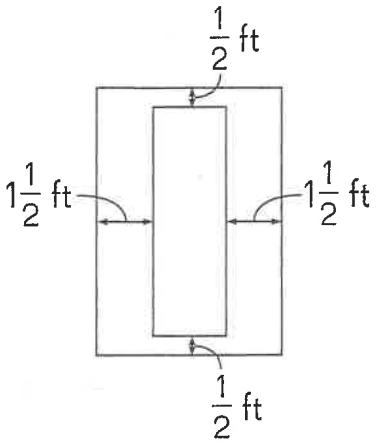
21. Ms. Kelly saved $3,640 in January. Her savings in January is $\frac{1}{3}$ of her monthly salary. In February, she saved a certain amount of her monthly salary and spent $7,184 more than the amount of money she saved in that month. How much did she save in February?



22. At a construction site, 6 workers carried an average of 15 kilograms of building materials. Another 3 workers joined them and the average amount they carried became 18 kilograms. How much did each of the 3 new workers carry if each new worker carried the same amount?

Name: _____ Date: _____

23. A painting is hung on a wall as shown in the diagram below. The painting measures 6 feet by 2 feet. What is the area of the wall not covered by the painting?

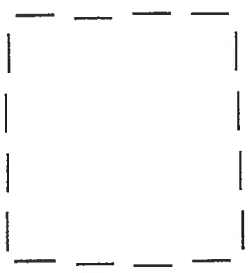


Name: _____ Date: _____

Bonus Questions

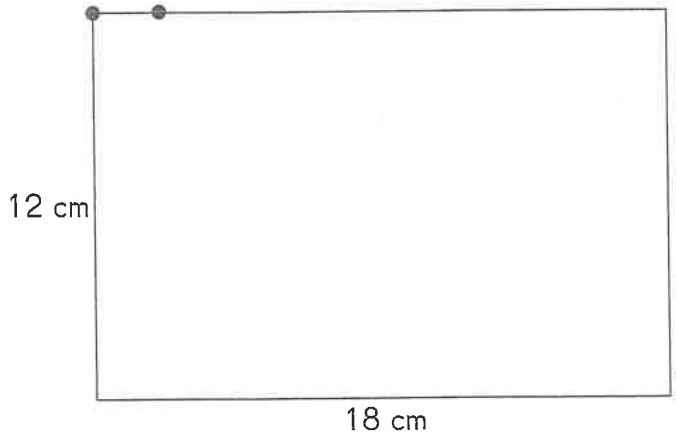
Solve.

1. A square is made with 16 toothpicks. Each toothpick is 3 centimeters long.



The toothpicks were rearranged to enclose an area of 135 square centimeters. Draw the figure formed by the toothpicks in the space below.

2. Mary wants to glue pebbles around her rectangular pot. The pebbles need to be 3 centimeters apart. How many pebbles does Mary need?



Name: _____

Multiplication

2 x 7 =	4 x 4 =
8 x 6 =	9 x 9 =
3 x 8 =	5 x 6 =
6 x 4 =	3 x 3 =
5 x 9 =	8 x 12 =
11 x 8 =	4 x 3 =
7 x 8 =	6 x 2 =

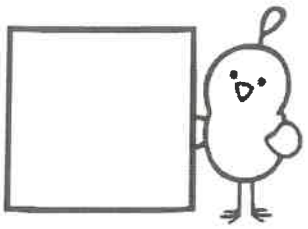
Name: _____

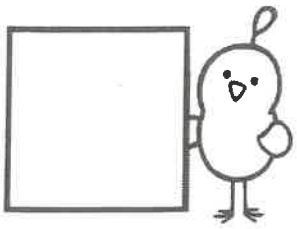
Multiplication

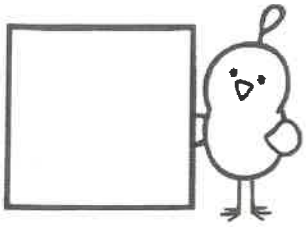
3 x 6 =	3 x 4 =
9 x 6 =	8 x 8 =
2 x 4 =	6 x 3 =
7 x 7 =	4 x 10 =
6 x 5 =	11 x 6 =
12 x 3 =	5 x 8 =
8 x 3 =	9 x 5 =

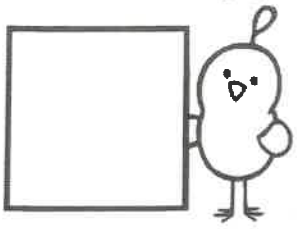
Name: _____

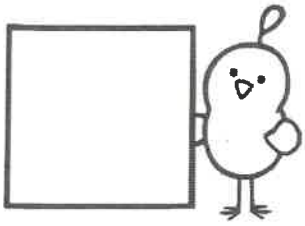
Multiplication

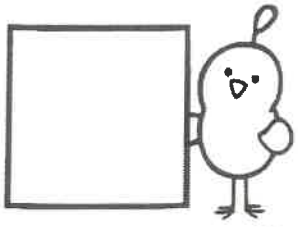
4 x 5 = 

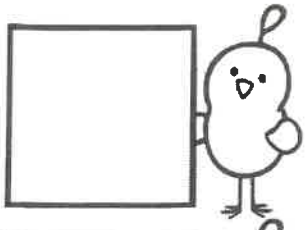
2 x 7 = 

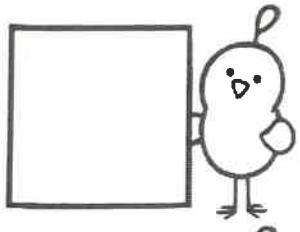
8 x 9 = 

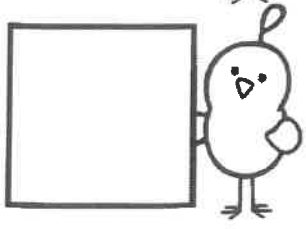
9 x 10 = 

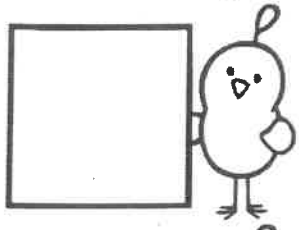
1 x 3 = 

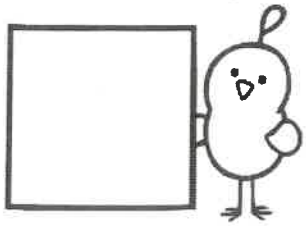
5 x 2 = 

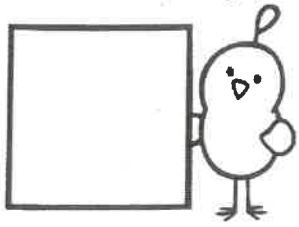
6 x 6 = 

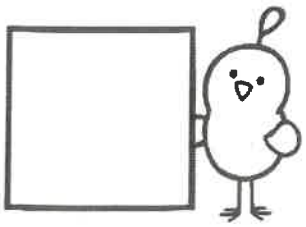
3 x 9 = 

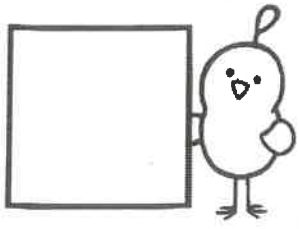
7 x 4 = 

10 x 5 = 

11 x 2 = 

4 x 9 = 

7 x 4 = 

12 x 4 = 

Name: _____

Multiplication

2 x 2 = ____

5 x 5 = ____

8 x 8 = ____

6 x 6 = ____

7 x 7 = ____

3 x 3 = ____

10 x 10 = ____

9 x 9 = ____

11 x 11 = ____

4 x 4 = ____

12 x 12 = ____