

TEST NAME: Math Gr 4 FAIM 2016 Form 1-A
TEST ID: 1549485
GRADE: Fourth Grade
SUBJECT: Mathematics
TEST CATEGORY: State Interim Assessment

Student:

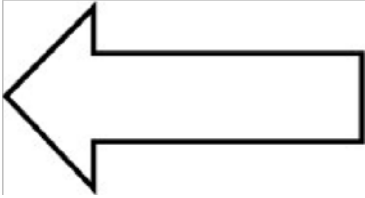
Class:

Date:

Instructions

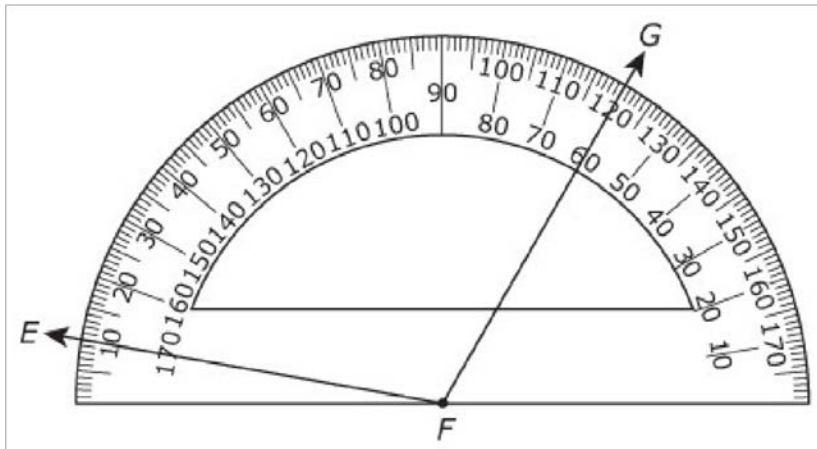
Use your Response Document to answer question 12.

1. How many lines of symmetry does the figure have?



- A. 0
- B. 1
- C. 2
- D. 3
2. The winner of a jump rope contest jumped 4 times as long as the person who finished in fifth place. The fifth place finisher jumped rope for 120 seconds. Which equation shows the total number of seconds the winner jumped rope?
- A. $120 \div 4 = 30$
- B. $120 - 4 = 116$
- C. $120 + 4 = 124$
- D. $120 \times 4 = 480$

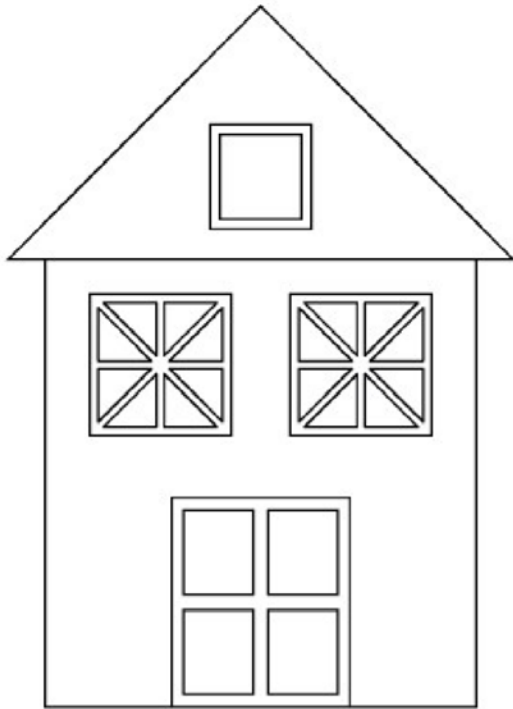
3. How many 1-degree angles are in angle EFG shown in the diagram below?



4. Delsie grew 287 tomatoes. She will sell them in baskets that hold 6 tomatoes each. What is the greatest number of baskets of 6 tomatoes Delsie can sell?

5. Tatum drew a picture of a house using right triangles and rectangles as shown below.

TATUM'S PICTURE OF A HOUSE



Which statement is true about the number of right triangles and rectangles in the picture of the house?

- A. There are more right triangles than rectangles.
 - B. There are more rectangles than right triangles.
 - C. There are equal numbers of rectangles and right triangles.
 - D. There are equal numbers of right angles and right triangles.
6. The fourth graders are taking a field trip to the museum. The cost is \$15 for each student. There will be 64 fourth graders on the trip. What is the total cost of the field trip to the museum?
- A. \$79
 - B. \$80
 - C. \$620
 - D. \$960

7. John is going camping for 7 days. He plans to take his dog with him. He knows that his dog eats $\frac{3}{4}$ pound of dog food per day. The pet store has 3 different bags of dog food. One bag is 3 pounds, one is 8 pounds, and one is 10 pounds.

Part A. Which single bag will have enough food for his dog and have the least amount left over?

Part B. John can buy more than one of the same bag in order to have less left over. Will this help him? Explain.

8. What fraction should be multiplied by $\frac{2}{3}$ to create an equivalent fraction with a denominator of 24?
9. Each row of strawberries Julia planted was 12 yards long. What was the length, in feet, of each row?
10. In which pair of numbers is the first number a multiple of the second number?
- A. 8 , 16
 - B. 42 , 4
 - C. 54 , 9
 - D. 63 , 8

11. The distances run by four students are shown in the chart below.

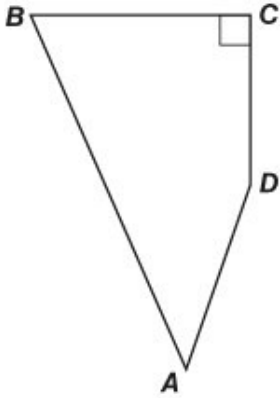
DISTANCE RUN BY STUDENTS

Student	Distance (in miles)
1	1.5
2	1.75
3	1.25
4	1.38

Which comparison of the distances is correct?

- A. $1.5 > 1.75$
- B. $1.38 < 1.75$
- C. $1.25 > 1.38$
- D. $1.5 < 1.25$

12. Marissa is making a stained-glass window. She uses pieces of glass in different shapes. Here is a drawing of one piece that Marissa is using for her stained-glass window.



Part A. Label the four angles in Marissa's piece of stained glass as acute, right, or obtuse.

Part B. Which line segment is perpendicular to \overline{BC} ?

Part C. Draw a design for another piece of glass Marissa could use. It should be a quadrilateral with exactly two right angles and exactly one set of parallel lines. Label the vertices M, N, O, and P.

Part D. Label the angles as acute, right, or obtuse and state which two line segments are parallel.

Place an "X" in the answer box below.

Answer the question on the Response Document provided.

Click next.

13. How would $\frac{70}{100}$ be shown as a decimal?
14. Five friends collected shells on the beach. When they put their shells all together, they had 79 shells. One friend had to leave, and he took the 40 shells he collected with him. The remaining friends decided they would divide the rest of the shells evenly. How many shells will be left over if each of the remaining friends gets an equal amount?

15. The clock below shows that the time is 6:00.



How many degrees will the minute hand have traveled when the time is 6:45 ?

- A. 90 degrees
 - B. 180 degrees
 - C. 270 degrees
 - D. 360 degrees
16. Charlotte is baking a cake. When she is measuring flour for the recipe, she puts $3\frac{1}{4}$ cups in a measuring cup but accidentally spills $1\frac{2}{4}$ cups of this flour. After spilling $1\frac{2}{4}$ cups of flour, Charlotte adds $2\frac{3}{4}$ more cups of flour to reach the total amount of flour required for the recipe. What was the total amount of flour required for the recipe?
- A. $1\frac{3}{4}$ cups
 - B. $3\frac{2}{4}$ cups
 - C. $4\frac{2}{4}$ cups
 - D. $7\frac{2}{4}$ cups

17. Two friends played basketball. One scored 187 points and the other scored 98 points during the season. How does the value represented by the digit 8 in 187 compare to the value of the digit 8 in 98?
- A. 8 times greater
 - B. 10 times greater
 - C. 89 times greater
 - D. 100 times greater
18. Shawna started with the number 121 and used the rule "subtract 4" to create the number pattern below.
- 121, 117, 113, ____, 105, ____, 97
- Part A. What are the two missing terms in this number pattern?
- Part B. What are the next two terms in this pattern after 97?
- Part C. Other than the rule "subtract 4", write an observation about all the terms in this number pattern.
- Part D. Explain how the answer to Part C would or would not change if the rule for Shawna's number pattern was "subtract 2" and the starting number was 121.
19. What is the sum of $696 + 789$?
20. Tyrell painted $\frac{8}{10}$ of a poster gray. He painted $\frac{13}{100}$ of the same poster red. What was the total fraction of the poster that was painted gray and red?