

TEST NAME: Math Gr 4 FAIM 2016 Form 2-B

TEST ID: 1549463

GRADE: Fourth Grade

SUBJECT: Mathematics

TEST CATEGORY: State Interim Assessment

Student:

Class:

Date:

Instructions

Use your Response Document to answer question 7.

1. At lunch $\frac{3}{100}$ of the students brought their lunch from home and $\frac{7}{10}$ of the students purchased a hot lunch at school. What was the total fraction of the students who brought their lunch or purchased a hot lunch?

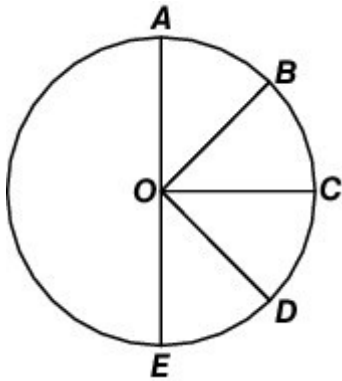
A. $\frac{10}{110}$

B. $\frac{10}{100}$

C. $\frac{73}{100}$

D. $\frac{73}{10}$

2. Look at the circle below.

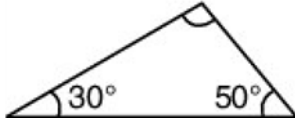


Which angle is 45° ?

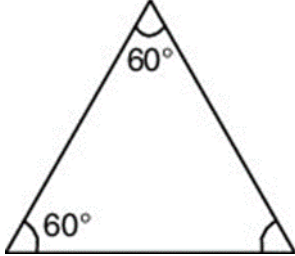
- A. $\angle AOD$
 - B. $\angle AOB$
 - C. $\angle AOE$
 - D. $\angle AOC$
3. The deepest place in the world's ocean is the Mariana Trench, which has been measured to a maximum depth of 10,911 meters. What is 10,911 meters rounded to the nearest thousand?
4. Cameron wants to buy a new pair of shoes that cost \$65. So far, he has saved \$30. He will continue to save \$5 more each week until he has enough money to buy the shoes. How many weeks will Cameron need to save to have enough money to buy the shoes?

5. Which triangle below is a right triangle?

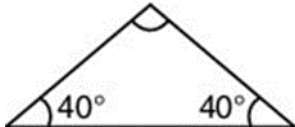
A.



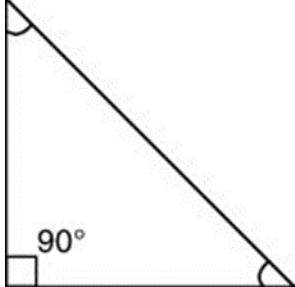
B.



C.



D.



6. Robin plays soccer $\frac{4}{12}$ of the year, swims $\frac{3}{12}$ of the year, and does gymnastics the rest of the year. What fraction of the year does Robin spend in gymnastics?

A. $\frac{1}{12}$

B. $\frac{3}{12}$

C. $\frac{5}{12}$

D. $\frac{7}{12}$

7. Part A. Draw a quadrilateral that has at least one pair of parallel sides and at least one right angle. Label the vertices of the quadrilateral J , K , L , and M .

Part B. Identify which sides are parallel to each other and which angles are right angles.

Place an "X" in the answer box below.

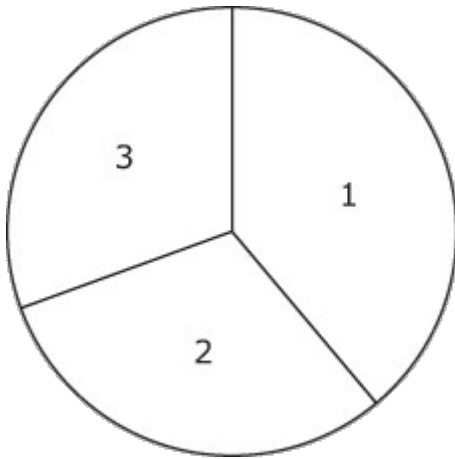
Answer the question on the Response Document provided. Click next.

8. Write the following fractions in order from **least** to **greatest**.

$$\frac{5}{6}, \frac{1}{2}, \frac{5}{12}, \frac{2}{3}$$

9. What are the factors of 30?
10. Sean has 4 times as many shells in his collection as Patty. Sean has 24 shells. How many shells does Patty have?
- A. 4
- B. 6
- C. 7
- D. 8
11. Which expression shows 10,803 written in expanded form?
- A. $10+803$
- B. $10+80+3$
- C. $1,000+800+3$
- D. $10,000+800+3$

12. Three landscapers are planting flowers in a section of a large circular garden. The landscapers divided the garden by making angles from the center of the garden to the outer edge of the garden, as shown below.



Which section of the garden has the largest angle? Justify your answer.

13. A theater sold 90 tickets for a comedy movie. It sold 8 times that number of tickets for a cartoon movie.

Part A. Write a multiplication equation that could be used to find the number of tickets sold for the cartoon movie.

Part B. The theater manager wrote the equation $90 \times 3 = ?$ to find the number of tickets sold for a mystery movie. Explain what this equation tells you about the number of tickets sold for the mystery movie as compared to the number of tickets sold for the comedy movie. Use the words "as many" in your answer.

14. For a science project, a group of 6 students each used $\frac{3}{4}$ of a gallon of water. They wrote the following expression to represent this.

$$6 \times \frac{3}{4}$$

What number should go in the box in the expression below to show another way to find the total number of gallons of water the students used?

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

15. Mrs. Robb's class is constructing a table to record feet and inches in common classroom items. The table below shows the comparisons.

CLASSROOM MEASUREMENTS

Item	Feet	Inches
Desk Length	3	36
Door Width	4	
Locker Width	2	24
Textbook Length	1	12

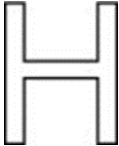
What is the width of the door in inches?

16. Which figure has **exactly** one line of symmetry?

A.



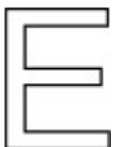
B.



C.



D.



17. Which equation is shown by the shaded parts of the model?



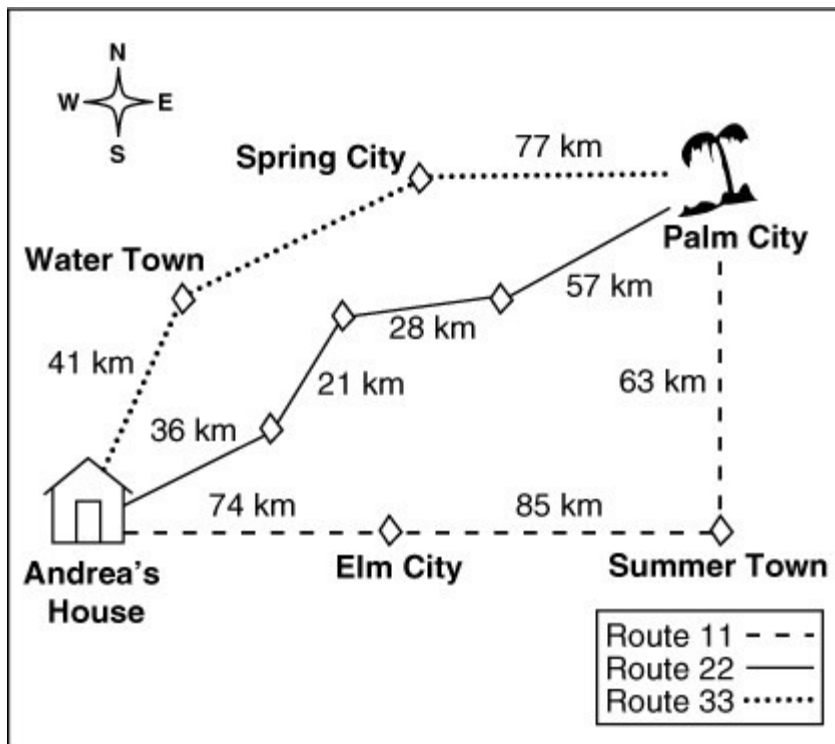
A. $\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

B. $\frac{1}{6} + \frac{2}{6} = \frac{3}{12}$

C. $\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$

D. $\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$

18. Andrea is going on vacation with her family to Palm City. The map below shows three different routes her family can take to get there.



Part A. Andrea's dad told her that total distance of Route 33 from their house to Palm City is 192,000 meters. How many kilometers long is Route 33?

Part B. What is the distance between Water Town and Spring City in kilometers?

Part C. Which route should Andrea's family members choose if they want to travel the shortest distance from their house to Palm City? Explain.

Part D. Andrea's mom decides that they will take Route 11 to get to Palm City so that they can visit her friend in Summer Town. If it took them 534 minutes to get to Palm City and they spent $2\frac{1}{2}$ hours visiting in Summer Town, how long was Andrea's family traveling in their car on Route 11 in hours and minutes? Explain.

19. What number makes this sentence true?

$$4,625 \div 5 = \underline{\hspace{2cm}}$$

20. The multiplication of which two numbers is shown in the area diagram?

