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STUDENT SAMPLE ITEM BOOKLET

Mathematics

Grade 4

MEA
Maine Educational Assessment

measured progress®

Sample Items

Directions

Read each question and choose the best answer.

1. Six hundred seven thousand, fifty people live in a city. Which expression shows another way to write the number of people who live in the city?

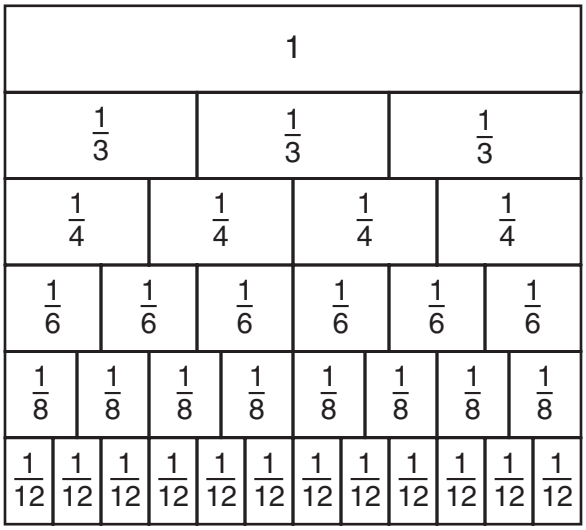
A $6 \times 100 + 7 \times 1{,}000 + 5 \times 10$

B $6 \times 10{,}000 + 7 \times 1{,}000 + 5 \times 10$

C $6 \times 100{,}000 + 7 \times 1{,}000 + 5 \times 10$

D $6 \times 100{,}000 + 7 \times 10{,}000 + 5 \times 1{,}000$

2. Use the fraction strips to help you answer the question.



Lucy painted $\frac{5}{6}$ of her fence in the morning. What fraction is equal to $\frac{5}{6}$?

A $\frac{1}{3}$

B $\frac{1}{4}$

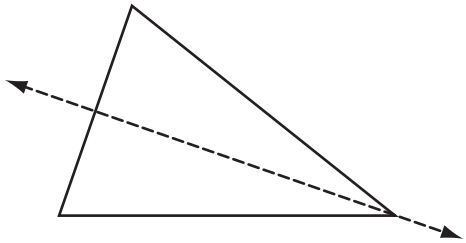
C $\frac{7}{8}$

D $\frac{10}{12}$

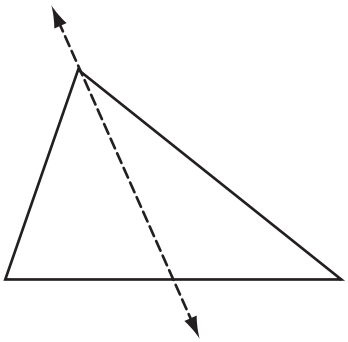
GO ON

3. Which figure shows a triangle with its line of symmetry?

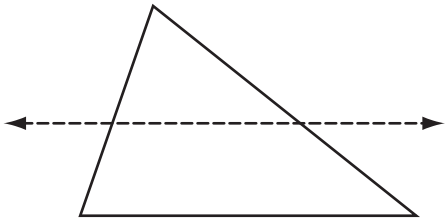
A



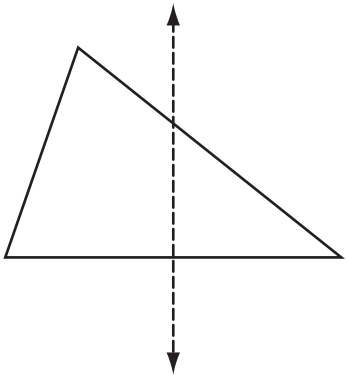
B



C



D



4. A science teacher measures two liquids, 0.09 liter of oil and 0.2 liter of water.

a. Write 0.09 as a fraction.

b. Write a number sentence that compares 0.09 and 0.2.

The teacher puts the two liquids in the same container.

c. How many liters of liquid are in the container? Show your work or explain how you know.

Use the information below to answer questions 5 and 6.

Mr. Bratly's students are solving this problem.

> A gymnasium is in the shape of a rectangle. It is 3 times as long as it is wide. The gymnasium is 150 feet long. What is the perimeter of the gymnasium?

5. What is a first step that will help a student solve this problem?

A Find the area of the gymnasium.

B Find the width of the gymnasium.

C Find the length of the gymnasium.

D Find the perimeter of the gymnasium.

6. Here are four students' answers to the problem.

- Archer says the perimeter is 7,500 feet because $150 \times 50 = 7{,}500$.
- Barbara says the perimeter is 600 feet because $150 + 450 = 600$.
- Sofia says the perimeter is 306 feet because $150 + 150 + 3 + 3 = 306$.
- Liam says the perimeter is 400 feet because $150 + 150 + 50 + 50 = 400$.

Which student is correct?

A Archer

B Barbara

C Sofia

D Liam

STOP