

eMPower™ **ME**

STUDENT TEST BOOKLET

Mathematics

Grade 5





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Practice Test

Directions

Read each question and choose the best answer.

107908A Multiple Choice B Common

1. Which is equivalent to 20×500 ?

- A 10^3
- B 10^4
- C 10^5
- D 10^6

106512A Multiple Choice D Common

2. The volume of a box is 72 cubic inches. The area of the bottom of the box is 18 square inches. What is the height of the box?

- A 54 inches
- B 27 inches
- C 8 inches
- D 4 inches

118734A Multiple Choice A Common

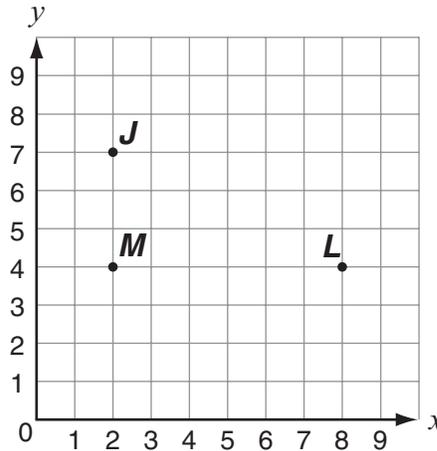
3. Jackson uses the values from two patterns to form ordered pairs. He then graphs the ordered pairs to form a line. Both patterns start at 2. The pattern for the x-values is to add 1 to the previous term. The pattern for the y-values is to add 3 to the previous term.

Which ordered pair is on the line that Jackson graphs?

- A (3, 5)
- B (4, 5)
- C (4, 6)
- D (5, 3)

118452A Constructed Response Common

4. Three points of rectangle $JKLM$ are plotted.



- What is the ordered pair for **each** point J , L , and M ?
- Point K is the fourth point of the rectangle. What is the ordered pair for point K ? Explain your reasoning.
- What is the perimeter, in units, of rectangle $JKLM$? Show or explain how you found your answer.

189642A Passage Common

Use the information below to answer questions 5 and 6.

Craig caught 24 fish at a fishing tournament. Each fish was one of four types: a bluegill, a catfish, a walleye, or a bass. Each fish has at least 2 different colors.

- $\frac{1}{3}$ of the fish were bluegills
- $\frac{1}{6}$ of the fish were catfish
- $\frac{1}{4}$ of the fish were walleyes

The rest of the fish were bass. How many fish were bass?

189643A Multiple Choice D Common

5. Which information is **not** needed to solve the problem?
- The number of bluegills
 - The number of catfish
 - The number of walleyes
 - The number of colors

189644A Multiple Choice C Common

6. Here are four students' solutions to the problem. Each student circled the answer.

Greg

$$1 + 3 + 1 + 6 + 1 + 4 + 2 = 18$$

$$24 - 18 = \textcircled{6}$$

Sara

$$\frac{1}{3} + \frac{1}{6} + \frac{1}{4} = \frac{3}{13}$$

$$3 + 13 = 16$$

$$24 - 16 = \textcircled{8}$$

Lisa

$$\frac{1}{3} = \frac{8}{24}$$

$$\frac{1}{6} = \frac{4}{24}$$

$$\frac{1}{4} = \frac{6}{24}$$

$$\frac{18}{24} + \frac{6}{24} = \frac{24}{24}$$

$$\textcircled{6}$$

Todd

$$\frac{1}{3} = \frac{4}{12}$$

$$\frac{1}{6} = \frac{2}{12}$$

$$\frac{1}{4} = \frac{3}{12}$$

$$\frac{12}{12} - \frac{9}{12} = \frac{3}{12}$$

$$\textcircled{3}$$

Which student's solution is correct?

- A Greg
- B Sara
- C Lisa
- D Todd