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Tennessee Comprehensive Assessment Program  
TCAP

**TNReady — Grade 5 Math Part I**

**PRACTICE TEST**

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Student Name

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Teacher Name



Tennessee Department of Education

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### Directions

This Practice Test booklet contains sample items for Grade 5 Math. Write your answers in this Practice Test booklet.

**You MAY use a calculator with all test items in this test booklet.**

### Sample A: Selected-Response

Circle the **three** expressions that have a value of 12.

- A.  $2 \times 6$
- B.  $5 \times 8$
- C.  $7 \times 2$
- D.  $4 \times 3$
- E.  $1 \times 12$

### Sample B: Match

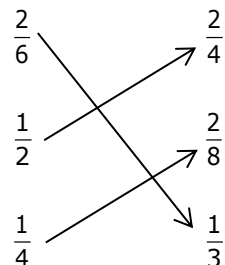
Draw lines to match each fraction on the left with its equivalent fraction on the right.

$\frac{2}{6}$	$\frac{2}{4}$
$\frac{1}{2}$	$\frac{2}{8}$
$\frac{1}{4}$	$\frac{1}{3}$

### Sample Answers

A. A, D, E

B.





1. The number shown has a bold digit and an underlined digit.

**4**4,000

Which statement correctly describes the bold and underlined digits?

- A. The bold **4** is  $\frac{1}{10}$  the underlined 4.
- B.\* The bold 4 is 10 times the underlined 4.**
- C. The bold **4** is one time the underlined 4.
- D. The bold **4** is  $\frac{1}{2}$  the underlined 4.
2. The first layer of a rectangular prism is packed with 12 unit cubes. There are no spaces or gaps between the cubes. The prism is 3 unit cubes tall. Select **all** expressions that represent the volume of the rectangular prism.
- A.  $12 + 3$
- B.\*  $12 \times 3$**
- C.  $12 \times 3 \times 3$
- D.  $12 \times 12 \times 3$
- E.\*  $12 + 12 + 12$**

3. Write the sum of  $42.6 + 0.45 + 30.22$  in the space provided.

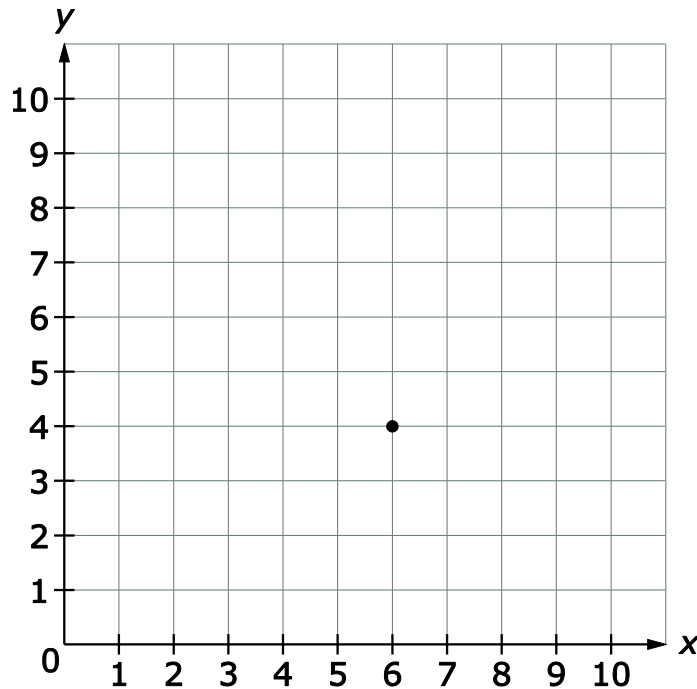
73.27
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4. There are 5 bags of jelly beans. Each bag is  $\frac{7}{8}$  full. Select the expression that can be used to represent the total amount of bags of jelly beans in all.

- A.  $7 \div (8 \times 5)$   
B.\*  $(5 \times 7) \div 8$   
C.  $8 \div (7 \times 5)$   
D.  $6 \times (7 \div 5)$

5. Which ordered pair describes the point shown on the graph?



- A. (4, 6)  
B. (5, 3)  
C.\* (6, 4)  
D. (7, 5)



6. Select **all** correct answers.

Find the sum.

$$1\frac{1}{4} + \frac{5}{6}$$

**A.\***  $1\frac{1}{4} + \frac{5}{6} = \frac{15}{12} + \frac{10}{12} = \frac{25}{12}$

**B.**  $1\frac{1}{4} + \frac{5}{6} = \frac{25}{24} + \frac{20}{24} = \frac{45}{24}$

**C.**  $1\frac{1}{4} + \frac{5}{6} = \frac{13}{12} + \frac{10}{12} = \frac{23}{12}$

**D.\***  $1\frac{1}{4} + \frac{5}{6} = \frac{30}{24} + \frac{20}{24} = \frac{50}{24}$



7. Elizabeth's Macaroni and Cheese Recipe (1 batch makes 8 servings)

8 ounces uncooked macaroni	$\frac{1}{2}$ cup bread crumbs
2 cups of cheddar cheese	3 cups of milk
$\frac{1}{2}$ cup grated parmesan cheese	$\frac{1}{4}$ cup of butter
$2\frac{1}{2}$ tablespoons flour	

**Part A**

Elizabeth is having a dinner party.

- 32 people are invited.
- $\frac{5}{8}$  of those invited are coming.

How many guests are coming to the dinner party? Write your answer in the space provided.

20

**Part B**

**Exactly** how many batches of macaroni and cheese will Elizabeth need to feed all her guests with no macaroni left over? Write your answer as a fraction in the space provided.

$2\frac{1}{2}$  or any equivalent

**Part C**

To make exactly enough batches of macaroni and cheese, how much of each ingredient will Elizabeth need to use?

Flour, in tablespoons:

$6\frac{1}{4}$  or any equivalent

Bread crumbs, in cups:

$1\frac{1}{4}$  or any equivalent

Butter, in cups:

$\frac{5}{8}$  or any equivalent

**Item continues on the next page.**



Elizabeth's Macaroni and Cheese Recipe (1 batch makes 8 servings)

8 ounces uncooked macaroni	$\frac{1}{2}$ cup bread crumbs
2 cups of cheddar cheese	3 cups of milk
$\frac{1}{2}$ cup grated parmesan cheese	$\frac{1}{4}$ cup of butter
$2\frac{1}{2}$ tablespoons flour	

**Part D**

Jennifer decided to make 1 batch of Elizabeth's recipe for her own family. She can only find her  $\frac{1}{4}$ -cup measuring cup. Jennifer is trying to figure out how to measure the milk.

Write an expression Jennifer can use to figure out how many  $\frac{1}{4}$ -cups of milk she will need.

$3 \div \frac{1}{4}$  or any equivalent expression

How many times will Jennifer need to fill the  $\frac{1}{4}$ -cup measuring cup to have the right amount of milk?

12

Students will receive credit if an incorrect solution for one part of the performance task is used correctly to solve another part of the task.



8. What is 473.69 rounded to the nearest whole number?

Write your answer in the space provided.

474

9. A cup is filled with pencils. The teacher sharpened  $\frac{1}{4}$  of them. A student sharpened  $\frac{2}{3}$  of them. The fraction of pencils left to be sharpened is \_\_\_\_\_.

A.  $\frac{11}{12}$

B.  $\frac{8}{12}$

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

D.\*  $\frac{1}{12}$

10. A plastic container has a square base with an area of 25 inches<sup>2</sup>. The container has a height of 4 inches. What is the volume, in cubic inches, of the container?

Write your answer in the space provided.

100



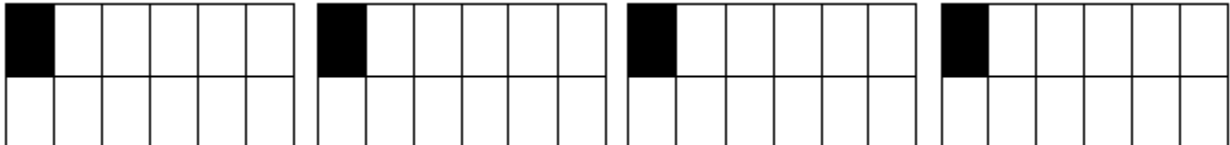


**11.** Select **all** the numbers with values less than twelve and thirteen-hundredths.

- A. thirteen and eleven-hundredths
- B. twelve and one hundred forty six-thousandths
- C.\* nine and five-tenths**
- D.\* 12.103**
- E.\* 8.72**

**12.** Carl has 4 candy bars. Each candy bar has 12 sections. He wants to share the candy bars equally with 11 friends and have some for himself.

Shade the number of sections of the candy bars one person would get.



\*Answers may vary. Student can shade any 4 of the sections.

**13.** Charlie used 3 different kinds of juice to make 4.4 liters of punch.

Select the **three** juices Charlie used to make the punch.

- A.\* 0.5 liter of orange juice**
- B. 1.5 liters of grape juice
- C.\* 2.25 liters of apple juice**
- D.\* 1.65 liters of cherry juice**