

Name \_\_\_\_\_ Date \_\_\_\_\_

**Unit 5 Test Form B**

Fill in the circle for the correct answer.

Solve.

1. At a sports store, 3 times as many footballs as volleyballs were sold. A total of 3,252 footballs were sold. Which equation can be used to find how many volleyballs were sold at the sports store?  
 A  $3 \times n = 3,252$ ;  $n = 1,084$  volleyballs  
 B  $3 \times n = 3,252$ ;  $n = 1,804$  volleyballs  
 C  $3 \times 3,252 = n$ ;  $n = 9,656$  volleyballs  
 D  $3 \times 3,252 = n$ ;  $n = 9,756$  volleyballs

2. A rectangular banner has an area of 36.75 square feet. If its length is 15 feet, what is its width?  
 15 ft  
 Area = 36.75 ft<sup>2</sup> ?  
 F 2.05 feet  
 G 2.45 feet  
 H 20.5 feet  
 K 24.5 feet

3. Some tubes of paints cost \$0.94 each, including tax. Lexi paid \$18.80 in all. How many tubes did Lexi buy?  
 A 2  
 B 20  
 C 200  
 D 2,000

4. A teacher puts 119 students into teams of 12 for a car wash fundraiser. Extra students work as community volunteers. How many students work as community volunteers?  
 F 9  
 G 10  
 H 11  
 K 12

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Find the quotients.

5.  $53 \div 10^1 =$    
 $53 \div 10^2 =$    
 $53 \div 10^3 =$    
 A 5.3, 0.53, 0.053  
 B 5.03, 5.003, 5.0003  
 C 0.53, 0.053, 0.0053  
 D 0.053, 0.0053, 0.00053

6.  $8.5 \div 10^1 =$    
 $8.5 \div 10^2 =$    
 $8.5 \div 10^3 =$    
 F 8.5, 0.85, 0.085  
 G 8.05, 8.005, 8.0005  
 H 0.85, 0.085, 0.0085  
 K 0.085, 0.0085, 0.00085

7.  $61 \div 0.1 =$    
 $61 \div 0.01 =$    
 $61 \div 0.001 =$    
 A 6.1, 0.61, 0.061  
 B 61; 610; 6,100  
 C 610; 6,100; 61,000  
 D 6,100; 61,000; 610,000

8.  $9.48 \div 0.1 =$    
 $9.48 \div 0.01 =$    
 $9.48 \div 0.001 =$    
 F 948; 9,480; 94,800  
 G 94.8; 948; 9,480  
 H 9.48, 94.8, 948  
 K 0.948, 0.0948, 0.00948

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Divide.

9.  $14 \overline{)97}$       10.  $38 \overline{)630}$       11.  $19 \overline{)6,009}$
- Ⓐ 6 R3      Ⓑ 16 R22      Ⓐ 368 R17  
 Ⓑ 6 R13      Ⓒ 16 R32      Ⓑ 368 R7  
 Ⓒ 7 R1      Ⓓ 19 R8      Ⓒ 316 R15  
 Ⓓ 7 R9      Ⓚ 19 R18      Ⓓ 316 R5
12.  $6 \overline{)5,436}$       13.  $7 \overline{)30,1}$       14.  $3 \overline{)0,18}$
- Ⓐ 960      Ⓐ 0.43      Ⓐ 0.006  
 Ⓑ 940      Ⓑ 4.03      Ⓑ 0.06  
 Ⓒ 906      Ⓒ 4.3      Ⓒ 0.6  
 Ⓓ 904      Ⓓ 43      Ⓓ 6
15.  $28 \overline{)270,2}$       16.  $31 \overline{)5,89}$       17.  $0.09 \overline{)72}$
- Ⓐ 965      Ⓐ 0.019      Ⓐ 0.8  
 Ⓑ 96.5      Ⓑ 0.19      Ⓑ 8  
 Ⓒ 9.65      Ⓒ 1.9      Ⓒ 80  
 Ⓓ 9.605      Ⓓ 19      Ⓓ 800
18.  $0.16 \overline{)2.88}$       19.  $0.4 \overline{)10.8}$       20.  $0.7 \overline{)2.45}$
- Ⓐ 0.18      Ⓐ 0.27      Ⓐ 0.35  
 Ⓑ 1.8      Ⓑ 2.7      Ⓑ 3.5  
 Ⓒ 18      Ⓒ 27      Ⓒ 35  
 Ⓓ 180      Ⓓ 270      Ⓓ 350

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21.  $0.22 \overline{)0.99}$       22.  $0.3 \overline{)978}$       23.  $26 \overline{)406,9}$
- Ⓐ 4.5      Ⓑ 3,260      Ⓐ 1,565  
 Ⓑ 0.45      Ⓒ 326      Ⓑ 15.65  
 Ⓒ 0.045      Ⓓ 32.6      Ⓒ 156.5  
 Ⓓ 0.0045      Ⓚ 3.26      Ⓓ 1,565

Solve.

Show your work.

24. A lion cub weighs 1.32 pounds. A new-born kitten weighs 0.24 pound. The weight of the lion cub is how many times as much as the weight of the kitten?
- Ⓐ 0.55      Ⓑ 5.5  
 Ⓒ 5.5      Ⓓ 55  
 Ⓓ 550
25. Julia has \$5.68. She buys as many bookmarks as she can for 75¢ (\$0.75) each. How many bookmarks does Julia buy?
- Ⓐ 6      Ⓑ 7      Ⓒ 8      Ⓓ 9

**Unit 6 Quick Quiz 3**

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*Show your work.*

Solve the problem, if possible. If a problem has too much information, identify the extra information. If a problem has too little information, describe the information that is needed to solve the problem.

1. Callum drives 346 miles from his home to the beach. He stops for lunch after driving 180 miles. How long does it take him to drive the rest of the way to the beach?  
too little information; Callum's driving speed is needed.
2. Mrs. Lin buys 8 packages of pens. Each package contains 12 pens and costs \$4. How much does Mrs. Lin spend on pens?  
\$32 too much information; the number of pens in each package is not needed.

**Solve.**

3. To support the high school, the local businesses will donate \$2 for every ticket sold at the homecoming game. If 113 student, 158 home, and 52 visitor tickets were sold, how much money did they donate?  
\$646
4. Estella, Ringo, and Martin participated in the school walkathon. Estella walked  $3\frac{2}{3}$  miles. Ringo walked  $\frac{1}{3}$  mile less than Estella, and Martin walked  $1\frac{1}{2}$  times as far as Ringo walked. How far did Martin walk?  
5 miles
5. The 4 fifth-grade classes at Keeth Elementary collected a total of 462 cans of food for a food drive. Three classes collected the same number of cans. The fourth class collected 120 cans. How many cans of food did each of the first three classes collect?  
114 cans

**Unit 6 Test Form A**

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Write the correct answer.

Write a word problem for the equation.

1.  $\frac{1}{2} \cdot 3 = \frac{3}{2}$   
Possible word problem: A recipe serving calls for  $\frac{1}{2}$  cup of grapes. To make 3 servings,  $\frac{3}{2}$  cups of grapes are needed.  
\_\_\_\_\_  
\_\_\_\_\_
2.  $\frac{5}{8} \cdot 2 = \frac{10}{8}$   
Possible word problem: Tressa needs  $\frac{5}{8}$  yard of fabric to make a purse. She needs  $\frac{10}{8}$  yards of fabric to make 2 purses.  
\_\_\_\_\_  
\_\_\_\_\_
3.  $\frac{1}{2} \div 3 = \frac{1}{6}$   
Possible word problem: After a soccer game,  $\frac{1}{2}$  of a pitcher of water was shared equally by 3 soccer players. Each player's share was  $\frac{1}{6}$  of the pitcher.  
\_\_\_\_\_  
\_\_\_\_\_

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Solve. Explain how you know your answer is reasonable. *Show your work.*

4. Students in the high school marching band are arranged in 17 equal rows. If there are 85 students in the marching band, how many students are in each row?

5 students; Possible explanation: I can round 85 to 100, and

17 is about 20; my answer is reasonable because  $100 \div 20 = 5$ .

5. Penn volunteered a total of 72 hours over the last 12 weeks. If he volunteered the same number of hours each week, how many hours did Penn volunteer in one week?

6 hours; Possible explanation: 72 is about 70 and 12 is about 10;

my answer is reasonable because  $70 \div 10 = 7$ .

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Write an equation and use it to solve the problem. *Show your work.*

6. Henry has  $2\frac{3}{4}$  cups flour. He uses  $1\frac{1}{2}$  cups of the flour to bake muffins. How much flour does Henry have left?

$1\frac{1}{4}$  cups; Possible equations:  $1\frac{1}{2} + f = 2\frac{3}{4}$ ,  $f = 2\frac{3}{4} - 1\frac{1}{2}$

7. Camille collects stickers. Her sticker book holds 5 stickers in each row. When a page is full, it holds 65 stickers. How many rows of stickers are on a full page?

13 rows; Possible equations:  $5 \cdot s = 65$ ,  $s = 65 \div 5$

Solve.

8. Julianne and Derek made signs for their school spirit week. Julianne made a sign that is  $3\frac{1}{2}$  feet long. Derek made a sign that is  $\frac{5}{6}$  as long as Julianne's sign. How long is the sign Derek made?

$2\frac{11}{12}$  feet

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9. Emilio made 65 potholders. Each potholder cost him \$1.65 to make. If he sells each potholder for \$2.12, how much profit will he make?  
\$30.55

10. **Extended Response** Mr. and Mrs. Storey drove 3,200 miles in all during their vacation. Mr. Storey drove 3 times as many miles as Mrs. Storey.  
How many miles did Mr. Storey drive?  
2,400 miles

How many miles did Mrs. Storey drive?  
800 miles

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Unit 6 Test, Form A

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**Unit 6 Test Form B**

Fill in the circle for the correct answer.

Which is a word problem for the equation?

1.  $\frac{1}{5} \cdot 4 = \frac{4}{5}$

- Ⓐ A recipe calls for  $\frac{1}{5}$  cup of beans. To make 4 times as many servings,  $\frac{4}{5}$  cup of beans is needed.
- Ⓑ A recipe calls for  $\frac{4}{5}$  cup of beans. To make 4 times as many servings,  $\frac{1}{5}$  cup of beans is needed.
- Ⓒ A recipe calls for  $\frac{1}{5}$  cup of beans. To make 4 times as many servings, 4 cups of beans are needed.
- Ⓓ A recipe calls for  $\frac{4}{5}$  cup of beans. To make 4 times as many servings, 4 cups of beans are needed.

2.  $\frac{7}{8} \cdot 3 = \frac{21}{8}$

- Ⓔ A skirt pattern calls for 3 yards of fabric. To make 3 skirts,  $\frac{21}{8}$  yards of fabric are needed.
- Ⓕ A skirt pattern calls for  $\frac{3}{8}$  yard of fabric. To make 3 skirts,  $\frac{21}{8}$  yards of fabric are needed.
- Ⓖ A skirt pattern calls for  $\frac{7}{8}$  yard of fabric. To make 3 skirts,  $\frac{21}{8}$  yards of fabric are needed.
- Ⓗ A skirt pattern calls for  $\frac{21}{8}$  yards of fabric. To make 3 skirts,  $\frac{7}{8}$  yard of fabric is needed.

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