Unit 3 Test Review

1) Write two other ways to represent division using the expression below:

$$\frac{2}{3} = 2 \div 3 = 3 \boxed{2}$$

The product of a number and its reciprocal is always One.

ex:
$$\frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = \boxed{1}$$

Give the reciprocal of the following numbers:

a)
$$\frac{3}{5} = \boxed{\frac{5}{3}}$$

b)
$$5\frac{1}{2} \xrightarrow{\text{MAD}} \frac{11}{2} \longrightarrow \boxed{\frac{2}{11}}$$

4) Which expression is equivalent to $\frac{3}{4} \div \frac{2}{3}$? $\longrightarrow \frac{3}{4} \times \frac{3}{2}$

$$A) \frac{2}{3} \div \frac{3}{4}$$

B)
$$\frac{2}{4} \cdot \frac{3}{3}$$

$$(C)\frac{3}{4} \cdot \frac{3}{2}$$

D)
$$\frac{4}{3} \div \frac{3}{2}$$

5) A recipe calls for 2/3 c. of flour. Eva wants to make 1/4 of the recipe. How much flour will Eva need to use?

1 recipe calls for
$$\frac{2}{3}$$
 cups of flour

to make I recipe:

multiply Denom
$$\frac{4}{3}$$
 $\times \frac{1}{4} = \frac{2}{12} \div 2 = \frac{1}{6}$ cups of flour.

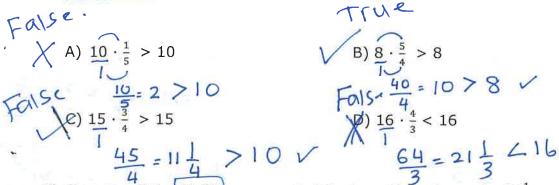
$$=\frac{2}{12}\div 2=$$

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6) Which of the following statements is true?

Hint:

When a number is multiplied by a value less than 1, the number decreases. When a number is multiplied by a value greater than 1, the number increases.



7) Grapes sell for \$1.89 per pound. What would be the cost of $2\frac{1}{4}$ pounds of grapes?

8) Samantha is dividing 2.5 pounds of M&Ms into smaller bags. She is putting $\frac{1}{5}$ pound of M&Ms in each smaller bag. How many bags can she make?

pound of M&Ms in each smaller bag. How many bags can she make?

turn the Fraction
$$\frac{1}{5} = 5 | 1.0 = 0.2$$

to a decimal

First

25.0

25.0

12.5

bags

9) 39.52 ÷ 2.6 = 10

39.52 ÷ 2.6 = 10

26.395.2

10)
$$\frac{10}{12} \cdot \frac{1}{23}$$
 $\frac{10}{7} \times \frac{1}{12} \times \frac{1}{23} = \frac{10}{276} = \frac{5}{138} = \frac{5}{138}$