

Name: Answers

Period: _____

HW13: Unit 6 Test Review #2

1. What is the greatest common factor (GCF) of 12 and 18? GCF is 6.
 12: 1, 2, 3, 4, 6, 12
 18: 1, 2, 3, 6, 9, 18

2. What is the least common multiple (LCM) of 9 and 12? LCM is 36.
 9: 9, 18, 27, 36
 12: 12, 24, 36

$$3. 2 \times \frac{3}{5} + (-\frac{1}{10}) =$$

$$\frac{6}{10} + (-\frac{1}{10}) = \frac{5}{10} = \frac{1}{2}$$

$$4. 3\frac{1}{3} - 5\frac{5}{9} =$$

$$\frac{2 \times 10}{3 \times 3} - \frac{50}{9} = \frac{30}{9} - \frac{50}{9} = -\frac{20}{9} = -2\frac{2}{9}$$

5. $\frac{3}{10} \div \frac{2}{5}$
 This is a division problem.
 $\frac{3}{10} \div \frac{2}{5} = \frac{3}{10} \times \frac{5}{2} = \frac{15}{20} = \frac{3}{4}$

$$6. -\frac{3}{4} \times 2\frac{1}{6} = -\frac{3}{4} \times \frac{13}{6} = -\frac{13}{8} = -1\frac{5}{8}$$

7. Malie is making identical flower arrangements for a party. She has 28 daisies and 32 roses. She wants each arrangement to have the same number of daisies and the same number of roses.

- a) What is the greatest number of arrangements that she can make if every flower is used?

GCF of 28 and 32 is 4.
She can make 4 arrangements.

- b) If she makes the greatest number of arrangements, how many daisies and how many roses will be in each arrangement?

$$4 \times 7 = 28 \text{ daisies}$$

$$4 \times 8 = 32 \text{ roses}$$

7 daisies and 8 roses in each arrangement.

8. A cookie recipe calls for $\frac{3}{4}$ cup of sugar. If you have 3 cups of sugar in your pantry, how many batches of cookies can you make? (note: you want to make as many as possible, so use all of the sugar.)

I can make 4 batches of cookies.

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

9. Jeri has a recipe that uses $2\frac{1}{2}$ cups of flour. She only has a $\frac{1}{4}$ -cup measure.

How many scoops of flour does Jeri need to use?

She needs to use 10 scoops of flour.

$$2\frac{1}{2} \div \frac{1}{4} = \frac{5}{2} \div \frac{1}{4} = \frac{5}{2} \times \frac{4}{1} = \frac{20}{2} = 10$$

10. Matilda bought a block of cheddar cheese. The block weighed $3\frac{3}{5}$ pounds. She cut the block up into three equal pieces. What was the weight of each piece of cheese?

$$3\frac{3}{5} \div 3 = 1\frac{1}{5}$$

$$\text{Proof: } 1\frac{1}{5} \times 3 = \frac{6}{5} = 1\frac{1}{5}$$

Each piece weighs 1 1/5 pounds.

11. You have 3 cups of fruit punch concentrate. If you mix $2/5$ cup of the concentrate with 1 gallon of water, you can make a pitcher of lemonade.

- a. How many pitchers of lemonade can you make with the 3 cups of concentrate?

$$3 \div \frac{2}{5} =$$

- b. How much water will you need if you use all of the concentrate?

You will need 7 1/2 gallons of water.

$$3 \times \frac{5}{2} = \frac{15}{2} = 7\frac{1}{2}$$

7 1/2 pitcher

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Huangqi Zhang



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