

Sum 2 Review

Name: _____ Date: _____ Block: _____

Summative 2 Review

Multiplying and Dividing Fractions

Multiplying:

1. Multiply numerator to numerator
2. Multiply denominator to denominator
3. If you are multiplying an even number of positives or negatives then your answer will be positive
4. If you are multiplying an odd number of negatives then your answer will be negative
5. Don't forget, you **MUST** convert a mixed number to an improper fraction before you multiply

Dividing:

1. Keep the first number
2. Change the division symbol to multiplication
3. Flip the second fraction (Multiply the reciprocal)
4. Follow multiplication rules

1. $\frac{4}{5} \times \left(-\frac{3}{8}\right) =$

2. $-3\frac{5}{6} \times \left(-\frac{3}{5}\right) =$

3. A full tub of water weighed $2\frac{2}{7}$ pounds. If the tub were filled up only $\frac{1}{4}$ full, how much would it weigh?

4. A bag of strawberry candy takes $2\frac{2}{5}$ ounces of strawberries to make. If you have $2\frac{6}{9}$ bags, how many ounces of strawberries did it take to make them?

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5. $-\frac{3}{4} \div \left(-\frac{3}{8}\right) =$

6. $3\frac{4}{5} \div 5\frac{2}{5} =$

7. You have $6\frac{1}{4}$ pizzas left over from a party. You divide the pizzas into eighths and put them in baggies. How many baggies will you need?

8. Mr. T hid $\frac{10}{12}$ pounds of chocolate from Mrs. T so he could eat it without getting in trouble. If he snuck away six times to eat his forbidden chocolate, how much did he eat each time?

9. Convert the following fractions to decimals and identify if they are either terminating or repeating.

a. $\frac{2}{5} =$ _____

b. $3\frac{2}{9} =$ _____

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Solve the following problems. Show your work.

10. $36.90 \div -0.6$

11. $-258.4 \div 0.04$

12. Mr. T found out that each student in his math class has 84.22 ounces of chocolate hidden in their lockers. While they were out at gym, Mr. T decided to confiscate the chocolate because he was worried about their health. How many ounces of chocolate were eaten, I mean, confiscated?

13. Write 2 expressions that are equivalent to $-\frac{7}{9}$. You may not change the numbers in the fraction.

14. Choose the expression that isn't equal to the others in the group. Show how you know you are correct.

a. $\frac{12}{18}$

b. $\frac{40}{60}$

c. $\frac{2}{3}$

d. $\frac{15}{24}$

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15. Write whether the product will be positive or negative.

$(7)(3)(-2)$ _____

$(-2)(-6)(2)(-7)(-1)$ _____

$(7)(-8)(-6)(2.6)$ _____

$(-1/2)(3.456)(-2.9)(-3/4)$ _____

$(-2)(-5.5)(-4/5)(2)(-9/10)$ _____

16. Write a situation that models the following equation: $7(-2) = 14$

17. Ms. Walker is training for a marathon. Over the past 15 days she has run a total of $85\frac{2}{3}$ miles. If she ran the same distance each day, how many miles did she run each day?

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18. Malby owns a pet rock stand and is trying to determine how much money he has earned. However, Malby kept giving pet rocks away to his friends. Malby bought the pet rocks from Mr. T for \$0.85 and he is selling them for \$1.50 each. In the past couple of weeks, Malby gave away 11 pet rocks.

a. How much money did Malby lose in the past two weeks, based on what he gave away to his friends? Show all work.

b. How much money did he make, if any, if he was able to sell 16 pet rocks? Show all work.

19. The elves at the North Pole make \$10.35 per hour. They earn 2.5 times their hourly wage for every hour they work over 60 hours. If an elf works for 75 hours in a week, how much did they earn for that week? Round to the nearest hundredth if necessary.