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Unit 2 Review

Create a factor tree for each number. Write the prime factorization.

1 10

_____

2 45

_____

3 81

_____

Rewrite as fractions with like denominators. Add or subtract. Show your work.

4 $\frac{1}{3} + \frac{5}{6} =$

5 $-\frac{3}{7} + 1\frac{4}{5} =$

6 $-2\frac{1}{4} + \left(-\frac{7}{10}\right) =$

7 $\frac{2}{9} - \left(-\frac{1}{3}\right) =$

8 $-3\frac{1}{4} - \frac{2}{3} =$

9 $-5\frac{1}{2} - \left(-\frac{7}{8}\right) =$

10 Could there be two fractions that cannot be rewritten with like denominators? Explain.

_____

_____

Multiply or divide. Write each answer in simplest form. Show your work.

11 $\frac{3}{4} \times \frac{1}{3} =$

12 $\frac{3}{10} \times \left(-\frac{1}{5}\right) =$

13 $-3\frac{2}{3} \times \left(-\frac{2}{9}\right) =$

14 $\frac{1}{4} \div \frac{2}{5} =$

15 $-\frac{1}{10} \div \left(-\frac{4}{9}\right) =$

16 $1\frac{6}{7} \div \left(-\frac{9}{10}\right) =$

Write a fraction and a decimal to represent each situation.

	Fraction	Decimal
17 Three out of every five pets is a dog.	_____	_____
18 Erik draws an ace five out of nine times.	_____	_____
19 With extra credit, Olivia received 107 points out of 100.	_____	_____

Add or subtract.

20 $23.5 + 7.8 =$

21 $3.09 + (-9.0) =$

22 $10.15 - 3.45 =$

23 $-2.105 - 6.34 =$

Multiply or divide.

24 $2.5 \times 3.8 =$

25 $-13.9 \times 0.05 =$

26 $15.1 \div (-0.5) =$

27 $-2.15 \div 0.2 =$

Solve each problem. Show your work. Answer the question.

28 Gas costs $2.88 per gallon. Derek filled up his van for $84.96. How many gallons of gas did he get?

_____

29 Derek gets 12.46 miles per gallon in his van. How far has he gone if he has used $15\frac{1}{2}$ gallons?

_____

30 Ms. Lum bought $4\frac{7}{10}$ yards of fabric for bulletin boards at $3.29 per yard. What was the total cost of the fabric?

_____

31 It takes $\frac{4}{5}$ yard of fabric to cover one bulletin board. How many boards can Ms. Lum cover?

_____

32 Multiply $\frac{1}{10} \times \frac{1}{10}$. _____ Multiply 0.1×0.1. _____ Explain the relationship shown.

_____

_____