

Definitions

1.*** Decimal

2.* Rational Number

3.*** Fraction

4.* Write the algorithm for multiplying decimals.

5.** Write 16.237 in word form.

6.** Write 32.405 in expanded notation

7. * How are the algorithms for ADD/SUB fractions and decimals related?

8.* When dividing decimals, why do you move the decimal point in the dividend the same number of places to the right as you move it in the divisor?

9.** Express in scientific notation

a. 645,000,000,000

b. .0000000468

10.** $12.345 + 8 + 2.03$

11.** $13 - 5.67$

12.** 102.3×6.2

13.** $9.1 \overline{)20.762}$

14.** Convert to a fraction

a) $.053$

b) $\overline{.23}$

15.** Convert to a decimal

a) $3/8$

b) $1/9$

16.** Round 54.3746 to the nearest thousandth.

17.** Simplify

$$\frac{(4.2 \times 10^7)(8.1 \times 10^4)}{2.1 \times 10^3}$$

18.** Simplify

a) $\sqrt{36}$

b) $\sqrt{300}$

19.* Lenny went to the store and bought a chair for \$17.95, a rake for \$13.59, a spade for \$14.84, a lawn mower for \$189.99, and two bags of fertilizer for \$3.29 each. What was his bill?

20.* Bill's car travels 224 miles on 12 gallons of gas. How many miles to the gallon does his car get, rounded to the nearest mile?