Decimals ***Name***
Date

Definitions

1. Decimal

2. Rational Number

3. Fraction

4. Write 16.237 in word form.

5. Write 32.405 in expanded notation

6. Write the algorithm for MULTIPLYING decimals

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. $52.4 x 6.1$

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 54.374 to the nearest hundredth

17 Simplify

$$\frac{\left(4.2x10^{7}\right)\left(8.1x10^{4}\right)}{2.1x10^{3}}$$

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 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?