Decimals A

Name

Date

Definitions

1.*** Decimal

2.*** Write the procedure for converting a repeating decimal to a fraction.

3.*** Write the algorithm for multiplying decimals.

4.*** Write the procedure for dividing decimals

5.*** Write the procedure for writing a number in scientific notation.

6.** Write 16.237 in word form.

7.** Write 32.405 in expanded notation

8.** Express in scientific notation

a. 645,000,000,000

b. .0000000468

9.** 12.345 + 8 + 2.03

10.** 13 – 5.67

11.** 102.3 x 6.2

12.** $9.1\overline{)20.762}$

13.** Convert to a fraction

a) .053 b) $\overline{.23}$

14.** Convert to a decimal

a) 3/8 b) 1/9

15.** Round 54.3746 to the nearest thousandth.

16.** Simplify

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

17.** Simplify

a) $\sqrt{36}$ b) $\sqrt{300}$

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

19.* 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?

20* .SBAC 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?

21.*** Write parental/guardian contact information; an email, home phone, cell phone or home address (CHP).