Pre-Algebra Name_____ ID: 1

Review Assignment due May 22

Date_____ Period____

Simplify. Your answer should contain only positive exponents.

1) $5x^0 \cdot x^0$

2) $2x^2 \cdot x^3$

3) $\frac{2x^4y^4}{8y^0}$

4) $\frac{3u^4v^5}{5u^5}$

Write each number in standard notation.

5) 6.2×10^3

6) 8.02×10^{-2}

Write each number in scientific notation.

7) 45

8) 0.00299

Write each number in standard notation.

9) 3.77×10^4

10) 7.87×10^3

Simplify. Write each answer in scientific notation.

11) $(9.7 \times 10^1)(5 \times 10^{-2})$

12) $(7 \times 10^{-2})(8.33 \times 10^1)$

13) $(9.4 \times 10^2)(4 \times 10^0)$

14) $(9 \times 10^{-2})(3 \times 10^1)$

Solve each problem.

15) 148 is 50% of what?

16) 49 is 18% of what?

17) 14% of what is 32.5?

18) 129 is 89% of what?

Find the selling price of each item.

19) Original price of a motorcycle: $5,100.00
Discount: 30%

20) Original price of a telescope: $249.99
Discount: 50%

21) Original price of a telescope: $394.50
Discount: 10%
Tax: 4%

22) Original price of a cell phone: $49.50
Discount: 5%
Tax: 1%

Use simple interest to find the ending balance.

23) $3,000 at 5% for 2 years

24) $25,200 at 10% for 3 years

Find the total value of the investment after the time given.

25) $16,000 at 3% compounded semiannually for 2 years

26) $49,000 at 3% compounded semiannually for 2 years

Answers to Review Assignment due May 22 (ID: 1)

1) 5

3) $\frac{x^4y^4}{4}$

5) 6200

7) 4.5×10^1

9) 37700

11) 4.85×10^0

13) 3.76×10^3

15) 296

17) 232.1

19) $3,570.00

21) $369.25

23) $3,300.00

25) $16,981.82