

T3-16 Review for Test

Name _____ Number _____ Period _____

Using properties of exponents, simplify each expression

1) $\left(\frac{a^6}{a^2b^5}\right)^3$

2) $(-3k^4)^2$

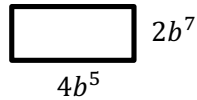
3) $\frac{n^{-5}m^3}{n^2m^{-2}}$

4) $r^6 \cdot r^{-10}$

5) $(a^4bc)^0$

6) $(3a^2b^3c^0)^3$

7) What is the area of the rectangle?



Perform each operation

8) $(8.3 \times 10^{-6}) - (7.4 \times 10^{-7})$

9) $(2 \times 10^{-3}) + (3.2 \times 10^{-1})$

10) $\frac{9.6 \times 10^{-3}}{1.2 \times 10^5}$

11) $(3.6 \times 10^8)(2.1 \times 10^{-4})$

$$12) (9.67 \times 10^6) + (3.45 \times 10^5)$$

$$13) (4.5 \times 10^3)(1.6 \times 10^5)$$

$$14) \frac{4.62 \times 10^7}{1.2 \times 10^4}$$

$$15) (3.64 \times 10^6) - (2.18 \times 10^4)$$

Convert to Scientific Notation:

$$16) 703,000,000,000$$

$$17) 0.00000000058$$

$$18) 69,900,000$$

$$19) 575,000,000$$

Convert to Standard Notation

$$20) 6.27 \times 10^{-6}$$

$$21) 2.09 \times 10^{-9}$$

$$22) 9.03 \times 10^2$$

$$23) 3.85 \times 10^{-4}$$