

Algebra I Lesson #4 Unit 1

Class Worksheet #4

For Worksheet #5

Algebra I Unit 1 Exponents and Factors

Algebra I Unit 1 Exponents and Factors

$$7 \cdot 7 = 7^2$$

Algebra I Unit 1 Exponents and Factors

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

Algebra I Unit 1 Exponents and Factors

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

Algebra I Unit 1 Exponents and Factors

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$4 = 4^1$$

$$7 \cdot 7 = 7^2$$

$$4 \cdot 4 = 4^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 = 4^1$$

$$4 \cdot 4 = 4^2$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

$$x = x^1$$

$$x \cdot x = x^2$$

$$x \cdot x \cdot x = x^3$$

$$x \cdot x \cdot x \cdot x = x^4$$

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 = 4^1$$

$$4 \cdot 4 = 4^2$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

$$x = x^1$$

$$x \cdot x = x^2$$

$$x \cdot x \cdot x = x^3$$

$$x \cdot x \cdot x \cdot x = x^4$$

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 = 4^1$$

$$4 \cdot 4 = 4^2$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

$$x = x^1$$

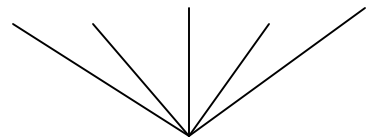
$$x \cdot x = x^2$$

$$x \cdot x \cdot x = x^3$$

$$x \cdot x \cdot x \cdot x = x^4$$

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$



factors

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 = 4^1$$

$$4 \cdot 4 = 4^2$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

$$x = x^1$$

$$x \cdot x = x^2$$

$$x \cdot x \cdot x = x^3$$

$$x \cdot x \cdot x \cdot x = x^4$$

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

factors

exponent

Algebra I Unit 1 Exponents and Factors

$$7 = 7^1$$

$$7 \cdot 7 = 7^2$$

$$7 \cdot 7 \cdot 7 = 7^3$$

$$7 \cdot 7 \cdot 7 \cdot 7 = 7^4$$

$$7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 = 7^5$$

$$4 = 4^1$$

$$4 \cdot 4 = 4^2$$

$$4 \cdot 4 \cdot 4 = 4^3$$

$$4 \cdot 4 \cdot 4 \cdot 4 = 4^4$$

$$4 \cdot 4 \cdot 4 \cdot 4 \cdot 4 = 4^5$$

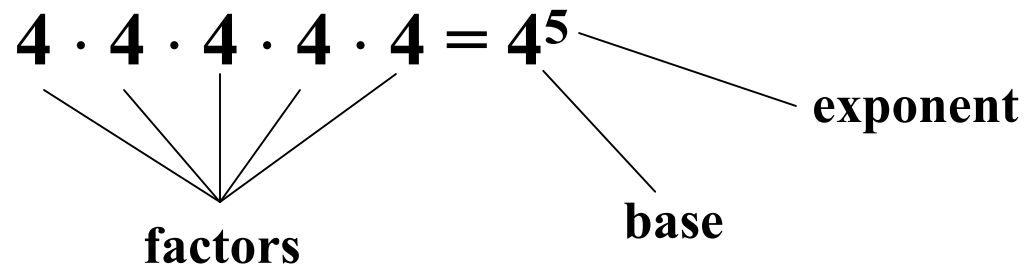
$$x = x^1$$

$$x \cdot x = x^2$$

$$x \cdot x \cdot x = x^3$$

$$x \cdot x \cdot x \cdot x = x^4$$

$$x \cdot x \cdot x \cdot x \cdot x = x^5$$



Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$x \cdot x \cdot x \cdot y \cdot y \cdot y \cdot y = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{\text{yellow arc}} \cdot y \cdot y \cdot y \cdot y = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot y \cdot y \cdot y \cdot y = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y} = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \frac{x^3 y^4}{1}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$3 \cdot 2 \cdot a \cdot a \cdot a \cdot a \cdot a \cdot b \cdot c \cdot c \cdot c \cdot c = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_{\quad} \cdot a \cdot a \cdot a \cdot a \cdot a \cdot b \cdot c \cdot c \cdot c \cdot c = \underline{\quad}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot a \cdot a \cdot a \cdot a \cdot a \cdot b \cdot c \cdot c \cdot c \cdot c = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot b \cdot \underbrace{c \cdot c \cdot c \cdot c}_{c^4} = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot b \cdot c \cdot c \cdot c \cdot c = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot \underbrace{b \cdot c \cdot c \cdot c \cdot c}_{\quad} = \underline{\quad}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot \underbrace{b \cdot c \cdot c \cdot c \cdot c}_{c^4} = \underline{\hspace{2cm}}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_6 \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot \underbrace{b \cdot c \cdot c \cdot c \cdot c}_{b c^4} = \underline{\quad}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{\quad x^3 y^4 \quad}$$

$$\underbrace{3 \cdot 2}_{6} \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot \underbrace{b}_{b} \cdot \underbrace{c \cdot c \cdot c \cdot c}_{c^4} = \underline{\quad}$$

Algebra I Unit 1 Exponents and Factors

Simplifying Algebraic Expressions

$$\underbrace{x \cdot x \cdot x}_{x^3} \cdot \underbrace{y \cdot y \cdot y \cdot y}_{y^4} = \underline{x^3 y^4}$$

$$\underbrace{3 \cdot 2}_{6} \cdot \underbrace{a \cdot a \cdot a \cdot a \cdot a}_{a^5} \cdot \underbrace{b}_{b} \cdot \underbrace{c \cdot c \cdot c \cdot c}_{c^4} = \underline{6a^5bc^4}$$

Algebra I Unit 1 Properties of Zero

Algebra I Unit 1 Properties of Zero

Zero and Addition

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$7 + 0 = 7$$

$$5 + 0 = 5$$

$$0 + 3 = 3$$

$$0 + 8 = 8$$

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$7 + 0 = 7$$

$$5 + 0 = 5$$

$$0 + 3 = 3$$

$$0 + 8 = 8$$

Rule: $x + 0 = x$ and $0 + x = x$.

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$7 + 0 = 7$$

$$5 + 0 = 5$$

$$0 + 3 = 3$$

$$0 + 8 = 8$$

Rule: $x + 0 = x$ and $0 + x = x$.

The Identity Law of Addition

Algebra I Unit 1 Properties of Zero

Zero and Addition

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$8 + -8 = 0$$

$$3 + -3 = 0$$

$$-2 + 2 = 0$$

$$-5 + 5 = 0$$

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$8 + -8 = 0$$

$$3 + -3 = 0$$

$$-2 + 2 = 0$$

$$-5 + 5 = 0$$

$$\text{Rule: } x + -x = 0$$

Algebra I Unit 1 Properties of Zero

Zero and Addition

$$8 + -8 = 0$$

$$3 + -3 = 0$$

$$-2 + 2 = 0$$

$$-5 + 5 = 0$$

$$\text{Rule: } x + -x = 0$$

The Inverse Law of Addition

Algebra I Unit 1 Properties of Zero

Zero and Subtraction

Algebra I Unit 1 Properties of Zero

Zero and Subtraction

$$7 - 0 = 7$$

$$5 - 0 = 5$$

Algebra I Unit 1 Properties of Zero

Zero and Subtraction

$$7 - 0 = 7$$

$$5 - 0 = 5$$

$$0 - 3 = -3$$

$$0 - 8 = -8$$

Algebra I Unit 1 Properties of Zero

Zero and Subtraction

$$7 - 0 = 7$$

$$5 - 0 = 5$$

$$0 - 3 = -3$$

$$0 - 8 = -8$$

Rule: $x - 0 = x$

Algebra I Unit 1 Properties of Zero

Zero and Subtraction

$$7 - 0 = 7$$

$$5 - 0 = 5$$

$$0 - 3 = -3$$

$$0 - 8 = -8$$

Rule: $x - 0 = x$ and $0 - x = -x$

Algebra I Unit 1 Properties of Zero

Zero and Division

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !!

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !!

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

The answer, if it exists must multiply by 5 to give a product of 0.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

The answer, if it exists must multiply by 5 to give a product of 0.

Clearly the answer is 0.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

The answer, if it exists must multiply by 5 to give a product of 0.

Clearly the answer is 0. Similarly, $0 \div 8 = 0$ and $0 \div 7 = 0$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

The answer, if it exists must multiply by 5 to give a product of 0.

Clearly the answer is 0. Similarly, $0 \div 8 = 0$ and $0 \div 7 = 0$.

Rule: If $x \neq 0$, then $0 \div x = 0$.

Algebra I Unit 1 Properties of Zero

Zero and Division

Consider the division problem $18 \div 6$. The answer is 3 because $3 \cdot 6 = 18$.

Now try the division problem $5 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 5.

Clearly this number does not exist !! We say that $5 \div 0$ is undefined.

Now try the division problem $0 \div 0$.

The answer, if it exists, must multiply by 0 to give a product of 0.

Clearly, any number works !! We say that $0 \div 0$ is also undefined.

Rule: Division by zero is undefined.

Consider the division problem $0 \div 5$.

The answer, if it exists must multiply by 5 to give a product of 0.

Clearly the answer is 0. Similarly, $0 \div 8 = 0$ and $0 \div 7 = 0$.

Rule: If $x \neq 0$, then $0 \div x = 0$. (Zero divided by any other number is zero.)

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p =$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p =$$

$$2. x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$$

$$5. (3x)(4x) =$$

$$6. (3x)(4y) =$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y =$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b =$
 $(5 \cdot 3)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15$
 $(5 \cdot 3)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15$
 $(5 \cdot 3) \cdot (a \cdot a)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

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Algebra I Class Worksheet #4 Unit 1

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2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2$
 $(5 \cdot 3) \cdot (a \cdot a)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2$
 $(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

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Algebra I Class Worksheet #4 Unit 1

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$
 $(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


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Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$
 $(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

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Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y =$

$(2 \cdot 4)$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8$

$(2 \cdot 4)$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x)$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x)$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$



3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$

5. $(3x)(4x) =$


6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

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Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

1. $p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$

2. $x \cdot x \cdot x \cdot x \cdot x \cdot y \cdot y \cdot y = x^5y^3$

3. $5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$

4. $2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$

$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$

$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$

5. $(3x)(4x) =$

6. $(3x)(4y) =$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

$$2. \underbrace{x \cdot x \cdot x \cdot x \cdot x}_{x^5} \cdot \underbrace{y \cdot y \cdot y}_{y^3} = x^5 y^3$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) =$$

$$(3 \cdot x)$$

$$6. (3x)(4y) =$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

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$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) =$$

$$(3 \cdot x) \cdot (4 \cdot x)$$

$$6. (3x)(4y) =$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

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$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) =$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4)$$

$$6. (3x)(4y) =$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

$$2. \underbrace{x \cdot x \cdot x \cdot x \cdot x}_{x^5} \cdot \underbrace{y \cdot y \cdot y}_{y^3} = x^5 y^3$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4)$$

$$6. (3x)(4y) =$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

$$2. \underbrace{x \cdot x \cdot x \cdot x \cdot x}_{x^5} \cdot \underbrace{y \cdot y \cdot y}_{y^3} = x^5 y^3$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

$$6. (3x)(4y) = 12xy$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

$$2. \underbrace{x \cdot x \cdot x \cdot x \cdot x}_{x^5} \cdot \underbrace{y \cdot y \cdot y}_{y^3} = x^5 y^3$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$6. (3x)(4y) =$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

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$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

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$$5. (3x)(4x) = 12x^2$$

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$$6. (3x)(4y) =$$

$$(3 \cdot x)$$

Algebra I Class Worksheet #4 Unit 1

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$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

$$6. (3x)(4y) =$$

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$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

$$6. (3x)(4y) =$$

$$(3 \cdot x) \cdot (4 \cdot y) = (3 \cdot 4)$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

$$6. (3x)(4y) = 12$$

$$(3 \cdot x) \cdot (4 \cdot y) = (3 \cdot 4)$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

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$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

$$4. 2 \cdot x \cdot x \cdot x \cdot x \cdot x \cdot 4 \cdot y = 8x^5y$$

$$(2 \cdot 4) \cdot (x \cdot x \cdot x \cdot x \cdot x) \cdot y$$

$$5. (3x)(4x) = 12x^2$$

$$(3 \cdot x) \cdot (4 \cdot x) = (3 \cdot 4) \cdot (x \cdot x)$$

$$6. (3x)(4y) = 12$$

$$(3 \cdot x) \cdot (4 \cdot y) = (3 \cdot 4) \cdot (x \cdot y)$$

Algebra I Class Worksheet #4 Unit 1

Simplify each of the following. (Remember that you can change the order and the grouping of the factors using the commutative and the associative properties of multiplication.)

$$1. p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p \cdot p = p^8$$

$$2. \underbrace{x \cdot x \cdot x \cdot x \cdot x}_{x^5} \cdot \underbrace{y \cdot y \cdot y}_{y^3} = x^5 y^3$$

$$3. 5 \cdot a \cdot a \cdot 3 \cdot b \cdot b \cdot b = 15a^2b^3$$

$$(5 \cdot 3) \cdot (a \cdot a) \cdot (b \cdot b \cdot b)$$

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Algebra I Class Worksheet #4 Unit 1

Find the value of each expression. If the value cannot be found, write 'not possible'. (Evaluate means to 'find the value of'.)

7. $2^5 =$

8. $1^3 =$

9. $4^1 =$

10. $10^3 =$

11. $0 \div 8 =$

12. $8 \div 0 =$

Algebra I Class Worksheet #4 Unit 1

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Algebra I Class Worksheet #4 Unit 1

Find the value of each expression. If the value cannot be found, write 'not possible'. (Evaluate means to 'find the value of'.)

7. $2^5 = 32$

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9. $4^1 =$

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$$10 \cdot 10 \cdot 10$$

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Algebra I Class Worksheet #4 Unit 1

Find the value of each expression when $x = 5$. If the value cannot be found, write 'not possible'. (Evaluate means to 'find the value of'.)

13. $x \div 5 =$

14. $\frac{x-5}{x+5} =$

15. $(x+5)(x-5) =$

16. $5 \div (x-5) =$

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Good luck on your homework !!

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