

SECTION 2.3

Multiplication and Division of Integers

I. OBJECTIVES

At the conclusion of this lesson you should be able to:

1. Multiply integers.
2. Divide integers.
3. Solve applications involving the multiplication and division of integers

II. PROCEDURE

Put DVD 3 in and go to Section 2.3. While watching the DVD, follow this study guide and take notes in the study guide as if you were sitting in a classroom. Stop or pause the DVD as needed to catch up or copy something down.

Multiplying Integers (Signed Numbers)

$$2(3) = \underline{\quad}$$

Positive \times Positive

$$2(2) = \underline{\quad}$$

$$2(1) = \underline{\quad}$$

$$2(0) = \underline{\quad}$$

$$2(-1) = \underline{\quad}$$

Positive \times Negative

$$2(-2) = \underline{\quad}$$

$$2(-3) = \underline{\quad}$$

$$-2(3) = \underline{\quad}$$

Negative \times Positive

$$-2(2) = \underline{\quad}$$

$$-2(1) = \underline{\quad}$$

$$-2(0) = \underline{\quad}$$

$$-2(-1) = \underline{\quad}$$

Negative \times Negative

$$-2(-2) = \underline{\quad}$$

$$-2(-3) = \underline{\quad}$$

Positive \times Positive = _____

Positive \times Negative = _____

Negative \times Positive = _____

Negative \times Negative = _____

$$-7(-4) = \underline{\hspace{2cm}}$$

$$-3(8) = \underline{\hspace{2cm}}$$

$$6(-5) = \underline{\hspace{2cm}}$$

$$4(8) = \underline{\hspace{2cm}}$$

$$(-1)(-2)(-3) = \underline{\hspace{2cm}}$$

$$(-1)(-2)(-3)(-2) = \underline{\hspace{2cm}}$$

When multiplying and you have an odd number of negatives, your answer will be _____.

When multiplying and you have an even number of negatives, your answer will be _____.

Commutative Property of Multiplication _____

Associative Property of Multiplication _____

Find $-4cd$ when $c = 10$ and $d = -8$.

Find $x(-y)$ when $x = -4$ and $y = -8$.

Is -6 a solution of $-42 = 7x$?

Dividing Integers

$8 \div 4 = \underline{\hspace{2cm}}$

Positive \div Positive

$8 \div 2 = \underline{\hspace{2cm}}$

$\underbrace{\hspace{10cm}}$

$8 \div 0 = \underline{\hspace{2cm}}$

$8 \div (-4) = \underline{\hspace{2cm}}$

Positive \div Negative

$8 \div (-2) = \underline{\hspace{2cm}}$

$\underbrace{\hspace{10cm}}$

$-8 \div 4 = \underline{\hspace{2cm}}$

Negative \div Positive

$-8 \div 2 = \underline{\hspace{2cm}}$

$\underbrace{\hspace{10cm}}$

$-8 \div 0 = \underline{\hspace{2cm}}$

$-8 \div (-4) = \underline{\hspace{2cm}}$

Negative \div Negative

$-8 \div (-2) = \underline{\hspace{2cm}}$

$\underbrace{\hspace{10cm}}$

Positive \div Positive = $\underline{\hspace{10cm}}$

Positive \div Negative = $\underline{\hspace{10cm}}$

Negative \div Positive = $\underline{\hspace{10cm}}$

Negative \div Negative = $\underline{\hspace{10cm}}$

Negative \div 0 = $\underline{\hspace{10cm}}$

Positive \div 0 = $\underline{\hspace{10cm}}$

$$-96 \div 6 = \underline{\hspace{2cm}}$$

$$-48 \div (-8) = \underline{\hspace{2cm}}$$

$$\frac{-117}{-3} = \underline{\hspace{2cm}}$$

$$-41 \div 0 = \underline{\hspace{2cm}}$$

Find $\frac{x}{y}$ where $x = 8$ and $y = -4$.

Is -6 a solution of $\frac{x}{2} = \frac{-18}{x}$?

III. HOMEWORK

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p. 123

1-107 odd