

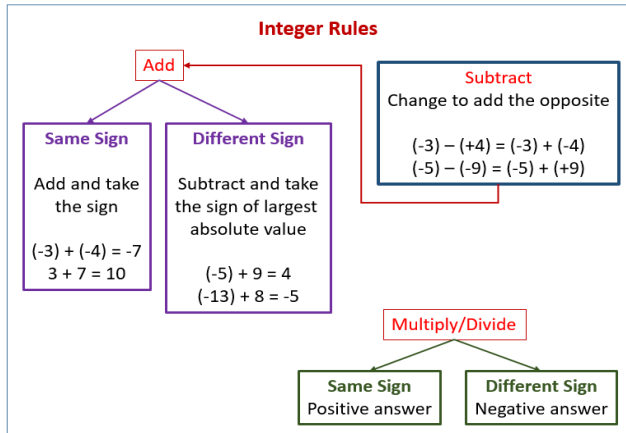
Pre-Algebra/Algebra Review

Objectives

I can add, subtract, multiply and divide integers without procedural errors.

I can round rational numbers to the indicated place indicated with no procedural errors.

Key Concepts



Rounding Decimals

Find your **place** and look **next door**.
5 or greater, add one more.

All digits in front, stay the same.
All digits behind, zero's the name.

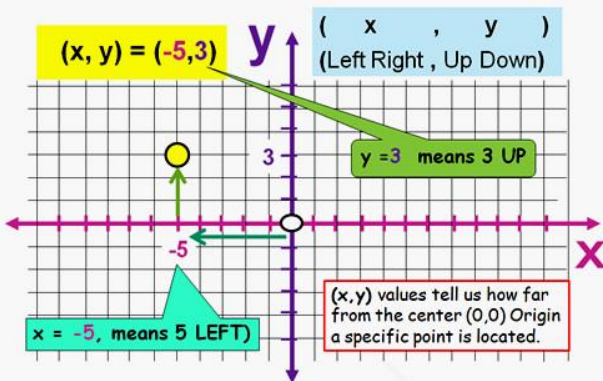
Round 1.362 to the nearest hundredths.

1.362 \longrightarrow 1.360
6 is at the hundredths place.
We look next door and find the number 2.
2 is less than 5 and so 6 remains the same.

Round 25.378 to the nearest tenths.

25.378 \longrightarrow 25.400
3 is at the tenths place.
We look next door and find the number 7.
7 is more than 5 and so we increase 3 to 4.

Coordinates - (x,y) Points



order of operations

The **order of operations** is a rule that tells you the sequence to follow when you are performing operations in a mathematical expression.

1.	2.	3.	4.
parentheses	exponents	multiplication	division
P	E	M or D	A or S
()	y^x	\times \cdot	\div
		$+$	$-$

Do **P**, then **E**. Then do **M** or **D**, left to right. Lastly, do **A** or **S**, left to right.

Examples

1. (We do) Evaluate the following expressions using integer rules.

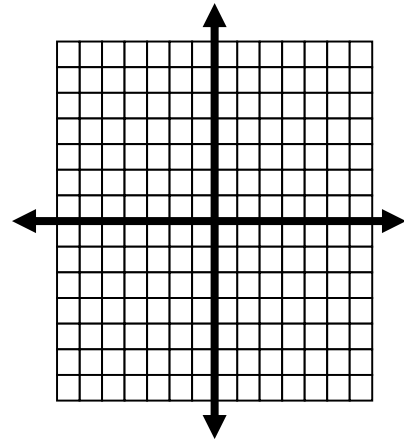
- a. $5 + -3$
- b. $8 + -11$
- c. $-10 + -3$
- d. $2 - (-3)$
- e. $-3 - (-5)$
- f. $4(-3)$
- g. $-12 \div -3$
- h. $-10 \div 20$

2. (We do) Round as indicated.

- a. Round 8.5263 to the nearest integer. _____
- b. Round 8.5263 to the nearest tenth. _____
- c. Round 8.5263 to the nearest hundredth. _____
- d. Round 8.5263 to the nearest thousandth. _____

3. (We do) Plot and label the following points.

- a. A (0, 4)
- b. B (1, -3)
- c. C (-2, 0)
- d. D (4, 2)
- e. E (-5, -4)
- f. F (1, -2)



4. (We do) Evaluate each expression.

- a. $(30 - 3) \div 3$ _____
- b. $8 \div 2(2 + 2)$ _____
- c. $6^2 \div 2(3) + 4$ _____
- d. $(4 - 1 + 16 \div 4) \times 3$ _____
- e. $\frac{18}{(5-2)(2)}$ _____

You Do: Complete your assignment on a separate sheet of paper. Show work.

1. Evaluate the following expressions using integer rules.

a. $-12 + 5$ b. $-10 - 5$ c. $-4(3)$

2. Round as indicated.

a. -2.156 to the nearest hundredth b. 143.43 to the nearest integer

3. Plot and label the following points.

a. S $(-2, 3)$ b. T $(4, -5)$ c. U $(0, -4)$ d. V $(-1, -4)$

4. Evaluate each expression.

a. $9 \times (3 + 3) \div 6$ b. $\frac{1 + 7^2}{2(5)}$

