

### Adding, Subtracting Integers

#### SAME SIGN ADD (+ means add)

$$\begin{array}{llll} 5 + 3 = 8 & -5 - 3 = -8 & -5 + (-3) = -8 & 5 - (-3) = 8 \\ \text{same sign +} & \text{same sign +} & \text{same sign +} & \text{same sign +} \end{array}$$

$$\begin{array}{llll} 7 + 2 = 9 & -7 - 2 = -9 & -7 + (-2) = -9 & 7 - (-2) = 9 \\ \text{same sign +} & \text{same sign +} & \text{same sign +} & \text{same sign +} \end{array}$$

#### DIFFERENT SIGN SUBTRACT (- means subtract)

sign of the larger number is the sign of the answer

$$\begin{array}{llll} -5 + 3 = -2 & 5 - 3 = 2 & 5 + (-3) = 2 & -5 - (-3) = -2 \\ \text{diff sign -} & \text{diff sign -} & \text{diff sign -} & \text{diff sign -} \end{array}$$

$$\begin{array}{llll} -7 + 2 = -5 & 7 - 2 = 5 & 7 + (-2) = 5 & -7 - (-2) = -5 \\ \text{diff sign -} & \text{diff sign -} & \text{diff sign -} & \text{diff sign -} \end{array}$$

### Multiplying, Dividing Integers

#### SAME SIGN POSITIVE (+ means positive)

$$\begin{array}{llll} 5 \cdot 3 = 15 & 15 \div 3 = 5 & -5 \cdot (-3) = 15 & -15 \div (-3) = 5 \\ \text{same sign +} & \text{same sign +} & \text{same sign +} & \text{same sign +} \end{array}$$

$$\begin{array}{llll} 7 \cdot 2 = 14 & 14 \div 2 = 7 & -7 \cdot (-2) = 14 & -14 \div (-2) = 7 \\ \text{same sign +} & \text{same sign +} & \text{same sign +} & \text{same sign +} \end{array}$$

#### DIFFERENT SIGN NEGATIVE (- means negative)

any combination of a positive and negative = NEGATIVE

$$\begin{array}{llll} 5 \cdot (-3) = -15 & -15 \div 3 = -5 & -5 \cdot 3 = -15 & 15 \div (-3) = -5 \\ \text{diff sign -} & \text{diff sign -} & \text{diff sign -} & \text{diff sign -} \end{array}$$

$$\begin{array}{llll} 7 \cdot (-2) = -14 & -14 \div 2 = -7 & -7 \cdot 2 = -14 & 14 \div (-2) = -7 \\ \text{diff sign -} & \text{diff sign -} & \text{diff sign -} & \text{diff sign -} \end{array}$$

### Angles

Acute  $< 90^\circ$



Right  $= 90^\circ$



Obtuse  $> 90^\circ$



### Triangles

#### Scalenes

no sides equal



#### Isosceles

2 sides equal



#### Equilateral

3 sides equal



#### Right

right angle  
 $90^\circ$



### Pythagorean Theorem

$$a^2 + b^2 = c^2$$

c is hypotenuse, longest side



### Prime/Composite

Prime numbers can only be divided by themselves and 1.  
Ex: 1, 2, 3, 5, 11, 23

Composite numbers have more than 2 factors.  
Ex: 4, 8, 20, 55, 1000

Distance = rate  $\cdot$  time,  $d = rt$

Simple interest  $I = prt$   
I: interest, p: principle, r: rate

### Temperature Conversion

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32)$$

$$^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32$$

### Natural numbers:

used for counting 1, 2, 3, 4

**Whole numbers:** natural + 0

**Integers:** + and -

whole numbers and 0

**Real:** all rational and irrational numbers + and -

### Solving Equations

**Step 1:** distribute if necessary, combine like terms

**Step 2:** add or subtract terms to get x term alone

**Step 3:** multiply or divide to get x = answer

If a term that needs to be moved is positive, subtract it from both sides.  
If a term that needs to be moved is negative, add it to both sides.

$$\begin{array}{l} x + 5 = 6 \\ x + 5 - 5 = 6 - 5 \\ x = 1 \end{array}$$

Subtract 5 from both sides.

$$\begin{array}{l} 8x - 32 = 0 \\ 8x - 32 + 32 = 0 + 32 \\ 8x = 32 \\ x = 4 \end{array}$$

Divide 8 from both sides.

$$\begin{array}{l} \frac{3}{5}x = 9 \\ \frac{3}{5}x \cdot \frac{5}{3} = 9 \cdot \frac{5}{3} \\ x = 15 \end{array}$$

Multiply by reciprocal (5/3) on both sides.

$$\begin{array}{l} x + 3 < 5 \\ x + 3 - 3 < 5 - 3 \\ x < 2 \end{array}$$

Subtract 3 from both sides.

$$\begin{array}{l} -5x > -20 \\ -5x > -20 \\ -5x > -20 \end{array}$$

Divide by -5, flip the inequality sign.

$$\begin{array}{l} x < 4 \end{array}$$

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### Evaluating Square Roots

$$\begin{array}{l} \sqrt{20} \\ = \sqrt{4 \cdot 5} \\ = 2\sqrt{5} \end{array}$$

Split the radical into two factors, where the first is a perfect square

$$\begin{array}{l} \sqrt{75} \\ = \sqrt{25 \cdot 3} \\ = 5\sqrt{3} \end{array}$$

$$\begin{array}{l} \sqrt{45} \\ = \sqrt{9 \cdot 5} \\ = 3\sqrt{5} \end{array}$$

$$\begin{array}{l} \sqrt{98} \\ = \sqrt{49 \cdot 2} \\ = 7\sqrt{2} \end{array}$$

$$\begin{array}{l} x > 4 \\ x \geq 4 \\ a < -1 \\ a \leq -1 \end{array}$$

### Scientific Notation

First number MUST be a single digit.

$$2,300$$

$$2.3 \times 10^3$$

$$5,678,000$$

$$5.678 \times 10^6$$

$$0.00417$$

$$4.17 \times 10^{-3}$$

$$0.00005$$

$$5.0 \times 10^{-5}$$

$$10^2 = 100$$

$$11^2 = 121$$

$$12^2 = 144$$

$$13^2 = 169$$

$$14^2 = 196$$

$$15^2 = 225$$

$$16^2 = 256$$

$$17^2 = 289$$

$$18^2 = 324$$

$$19^2 = 361$$

$$20^2 = 400$$

$$|-6| = 6$$

$$|-20| = 20$$

$$|6| = 6$$

$$|20| = 20$$

$$|-6| = -6$$

$$|-20| = -20$$

$$|6| = 6$$

$$|20| = 20$$

$$|-6| = -6$$

$$|-20| = -20$$

Find percentage of a number by multiplying by the decimal version of the percent. Ex: 85% of 900 = 0.85 • 900 = 765

# Pre Algebra Reference Guide And Problems Sets

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