

Week: January 30 – February 3

PreAlgebra Assignments:

**PUT THESE ASSIGNMENTS IN YOUR ASSIGNMENT NOTEBOOK!!!**

Due: (Show work)

Tues: Test Chapter 8, Vocabulary Chapter 8

Wed: Voc. 9-2, WS 109

Thurs: No Class

Fri: Voc. 9-3, WS 110, Quiz 1 – Set 3 Frac/Dec

Mon: Voc. 9-4, p. 396 GP 1-9. Ex. 1 - 9

One line of paper per line of work

Skip line between problems.

Fold paper in half.

Problems done in class on the left side,  
remaining problems on the right side.

Numerators on 1 line, denominators on 2nd line.

Vocabulary check:

Score in margin on right next to #1

# correct / total

Correct work in red pen for the incorrect problems and those not done.

Heading and title must be complete.

Work done in pencil. Errors are erased, not crossed out.

Before passing in your paper put your first and last name on the back of the last page

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Vocabulary 9-2 Proportions

Proportion: Two ratios that are equal.

$$\frac{a}{b} = \frac{c}{d}$$

Cross Products: If the proportion is true then the cross products are equal.

$$\frac{a}{b} = \frac{c}{d} \quad \frac{3}{4} = \frac{9}{12}$$
$$ad = bc \quad 3 \times 12 = 4 \times 9$$

Solving Proportions: Use cross products to solve for a missing term

1)  $\frac{n}{6} = \frac{3}{2}$

$$2n = 6 \cdot 3$$
$$\frac{2n}{2} = \frac{18}{2}$$
$$n = 9$$

2)  $\frac{6}{4} = \frac{b}{10}$

$$6 \cdot 10 = 4b$$
$$\frac{60}{4} = \frac{4b}{4}$$
$$15 = b$$

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Voc. 9-3 Scale Drawings

1) Scale drawings - Representations of real objects (either larger or smaller)

2) Scale - Ratio of drawing to real object.

$\frac{\text{model}}{\text{real}}$

3) Scale Model - Object has same shape but usually smaller than actual object.

Use proportions to find dimensions of scale models.

Example:

Car model is built with scale 2 in:5ft. Actual length of car is 12 ft. What is the length of the model?

$$\frac{2 \text{ in}}{5 \text{ ft}} = \frac{x}{12 \text{ ft (real)}}$$

$$\frac{24}{5} = \frac{5x}{5}$$

$$4.8 = x$$

Voc. 9-4 Using proportions to solve word problems

Example:

The Daily Gazette charges \$7.20 for 3 weeks of home newspaper delivery.

At this rate, what is the cost of 8 weeks of home delivery?

Set up a proportion....

$$\frac{\text{Money}}{\text{weeks}} = \frac{\text{Money}}{\text{weeks}}$$

$$\frac{\$7.20}{3} = \frac{x}{8}$$

$$57.6 = 3x$$

$$19.2 = x$$

