

Name: Key

Semester 1 Final Review  
Day 2: Unit 1 : Pre Assessment 2

Objective: Can I solve a proportion?

Solve for x.

1.  $\frac{x}{2} = \frac{11}{22}$

$$22x = 22$$

$$x = 1$$

2.  $\frac{x+3}{-4} = \frac{3}{6}$

$$6x + 18 = -12$$
$$\underline{-18 \quad -18}$$

$$\frac{6x}{6} = \frac{-30}{6}$$

$$x = \frac{-30}{6}$$

$$x = -5$$

Self-Assess

1 2 3

I really need to review.

I remember this like it was yesterday. ☺

Objective: Can I solve percentage problems?

1. What number is 25% of 80?  $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

$$\frac{x}{80} = \frac{25}{100}$$

$$\frac{100x}{100} = \frac{2000}{100}$$
$$x = 20$$

2. 32 is what percentage of 45?

$$\frac{32}{45} = \frac{x}{100}$$

$$\frac{3200}{45} = \frac{45x}{45}$$

$$71.11 = x$$

71%

Self-Assess

1 2 3 4 5

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Objective: Can I solve percentage real-life problems?

You go to the store to buy a new shirt. The shirt costs \$14.95. It is 30% off. How much did you pay for the discounted shirt?

$$14.95 \times .30 = \$4.49$$

$$\$10.46$$

Self-Assess

1 2 3 4 5

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Objective: Can I solve literal equations?

Solve for y.

$$3y - 4x = 12$$
$$\underline{+4x \quad +4x}$$
$$\frac{3y}{3} = \frac{4x + 12}{3}$$

$$y = \frac{4}{3}x + 4$$

Self-Assess

1 2 3 4 5

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