Unit 1

Name: Ans key

Lesson 1

Date: 12 14 24

After completing each question, write which property of equality (1, or multiple) was used.

- 1. Solve for x: 1.5x = 301. 5 (20) = 30

  (x = 26)

  denosion
- 2. Solve for x: 0.6x + 1.5 = 3.9

3. Solve for x:  $\frac{2}{3}x = -12$ 

$$\frac{2x = -76}{2}$$
 of  $x = -18$   $\frac{2}{3}(-18) = -12$ 

4. Solve for x: 1.2x + 0.3 = 7.5

$$\frac{1.2 \times 2.2}{1.2(6) = 7.2}$$

$$\frac{1.2(6) = 7.2}{1.2(6) = 7.2}$$
Substances or thought the page 1

5. Solve for 
$$x: \frac{2}{3}x - 1 = 5$$

$$\frac{2}{3} \times = 6$$
 Multiplication prop.  
 $(X=9)$  Perision prop.

6. Solve for 
$$x$$
:  $0.4x + 3 = 15$ 

$$\frac{.4x = 12}{.4} \qquad .4(30) = 12$$
Solve for x:  $4(x-2)-3=9$  Prop

$$4x-8-3=9$$
  $4(5)-8-3=9$   $4x-11=9$  addition prop

8. Solve for x: 
$$5(2x-4) = 10$$

$$\frac{10x - 20 = 16}{10x = 30}$$

$$\frac{10x = 30}{(6)}$$

$$\frac{10(3) = 20 = 16}{(6)}$$

Solve for *x*: 0.15x = 5.259.

$$\frac{.15x = 5.25}{.15} \frac{.15(3.5) = 5.25}{.15}$$
 duision prop

Solve for *x*: 21 = 3(x + 2)

$$\frac{21 = 3 \times +6}{15 = 3 \times}$$

$$\frac{15 = 3 \times}{3}$$
Subtraction prop
$$\frac{3}{(\times 2.5)}$$
devition prop
$$\frac{3}{(\times 2.5)}$$

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