

Algebra 1 Check for understanding

Name \_\_\_\_\_ Period: \_\_\_\_\_

1. True or False:  $\frac{3}{4} = \frac{6}{8}$  Explain how you know.

Yes.  $\frac{3 \cdot 2 = 6}{4 \cdot 2 = 8}$

2. Is the fraction  $\frac{5}{6}$  greater than  $\frac{1}{2}$ ? Justify.

Yes.  $\frac{1}{2} = \frac{3}{6} < \frac{5}{6}$ .

Solve. Show all your steps.

3.  $x + 3 = 15$

$-3 -3$

$x = 12$

4.  $\frac{8x}{8} = \frac{24}{8}$

$x = 3$

5.  $3x - 2 = -14$

$+2 +2$

$\frac{3x = -12}{3 \quad 3}$

$x = -4$

6.  $\frac{2(x+1)}{2} = \frac{28}{2}$

$x+1 = 14$

$-1 -1$

$x = 13$