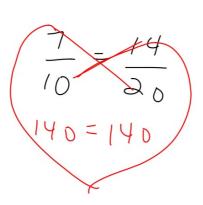
Alg 1 2.6

Compare ratios
Solve proportions

ratio proportion cross-products scale scale model

$$\frac{2}{5}$$
  $\frac{3}{2}$ 



2 quivalent ratios Solve each proportion. If necessary, round to the nearest hundredth.

**15.** 
$$\frac{3}{8} = \frac{15}{a}$$

**16.** 
$$\frac{t}{2} = \frac{6}{12}$$

17. 
$$\frac{4}{9} = \frac{13}{\%}$$

a=40

$$t-12=2-12$$
 $\frac{12}{12}=12$ 
 $t=1$ 
 $t=1$ 

$$t-12=2-6$$
  $\frac{4x=177}{4}$   $\frac{12}{12}=12$   $x=29.25$ 

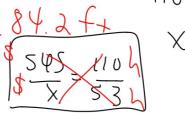
$$\frac{28}{8} = \frac{6}{10} \cdot \frac{5}{10}$$

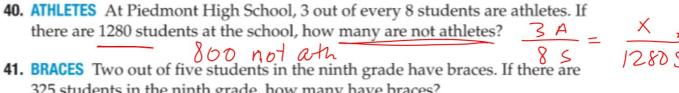
$$\frac{30}{10} \times -3 = \frac{30}{10}$$

$$\frac{30}{10} \times -3 = \frac{3}{10}$$

32. PRECISION An artist used interlocking building blocks to build a scale model of Kennedy Space Center, Florida. In the model, 1 inch equals 1.67 feet of an actual space shuttle. The model is 110.3 inches tall. How tall is the actual space shuttle? Round to the nearest tenth.

33. MENU On Monday, a restaurant made \$545 from selling 110 hamburgers. If they sold 53 hamburgers on Tuesday, how much did they make?





325 students in the ninth grade, how many have braces?

$$\frac{2B}{5S} = \frac{x}{325S}$$

$$\frac{5x}{5} = \frac{650}{5}$$

$$x = 130$$

$$\frac{8x = 3840}{8}$$

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