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Alg 1 2.6

Compare ratios  
Solve proportions

ratio  
proportion  
cross-products  
scale  
scale model

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.  $\frac{4}{9} = \frac{13}{q}$

$$27. \frac{x-3}{5} = \frac{6}{10}$$

$$28. \frac{7}{x+9} = \frac{21}{36}$$

$$29. \frac{10}{15} = \frac{4}{x-5}$$

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32. **CCSS 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?

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40. **ATHLETES** At Piedmont High School, 3 out of every 8 students are athletes. If there are 1280 students at the school, how many are not athletes?
41. **BRACES** Two out of five students in the ninth grade have braces. If there are 325 students in the ninth grade, how many have braces?

