$\qquad$
Use cross products to determine whether each pair of ratios form a proportion. Write yes or no.

1. $\frac{3}{2}, \frac{21}{14}$
2. $\frac{2.3}{3.4}, \frac{3.0}{3.6}$
3. $\frac{21.1}{14.4}, \frac{1.1}{1.2}$
4. $\frac{8}{9}, \frac{12}{18}$
5. $\frac{4.2}{5.6}, \frac{1.68}{2.24}$
6. $\frac{5}{2}, \frac{4}{1.6}$

Solve each proportion. If necessary, round to the nearest hundredth.
7. $\frac{4}{x}=\frac{2}{10}$
11. $\frac{6}{8}=\frac{7}{a}$
14. $\frac{2.405}{3.67}=\frac{s}{1.88}$
8. $\frac{1}{y}=\frac{3}{15}$
12. $\frac{16}{7}=\frac{9}{b}$
15. $\frac{6}{14}=\frac{7}{x-3}$
9. $\frac{6}{5}=\frac{x}{15}$
10. $\frac{20}{28}=\frac{n}{21}$
13. $\frac{1}{0.19}=\frac{12}{n}$
16. $\frac{5}{3}=\frac{6}{x+2}$

## Complete.

17. Seth earns $\$ 152$ in 4 days. At that rate, how many days will it take him to earn $\$ 532$ ?
18. Lanette drove 248 miles in 4 hours. At that rate, how long will it take her to drive an additional 93 miles?
19. A blueprint for a house states that 2.5 inches equals 10 feet. If the length of a wall is 12 feet, how long is the wall in the blueprint?
20. A collector's model racecar is scaled so that 1 inch on the model equals $6 \frac{1}{4}$ feet on the actual car. If the model is $\frac{2}{3}$ inch high, how high is the actual car?
21. A research study shows that three out of every twenty pet owners got their pet from a breeder. Of the 122 animals cared for by a veterinarian, how many would you expect to have been bought from a breeder?
