Name _____ Date _____ Class _____

Skill: Solving Proportions

Investigation 4

Comparing and Scaling

Solve each proportion for the missing value.

1. $\frac{k}{8} = \frac{14}{4}$
2. $\frac{u}{3} = \frac{10}{5}$
3. $\frac{14}{6} = \frac{d}{15}$
4. $\frac{5}{1} = \frac{m}{4}$
5. $\frac{36}{32} = \frac{n}{8}$
6. $\frac{5}{30} = \frac{1}{x}$
7. $\frac{t}{4} = \frac{5}{10}$
8. $\frac{9}{2} = \frac{v}{4}$
9. $\frac{x}{10} = \frac{6}{4}$
10. $\frac{8}{12} = \frac{2}{b}$
11. $\frac{v}{15} = \frac{4}{6}$
12. $\frac{3}{18} = \frac{2}{s}$

Estimate the solution of each proportion.

13. $\frac{m}{25} = \frac{16}{98}$
14. $\frac{7}{3} = \frac{52}{n}$
15. $\frac{30}{5.9} = \frac{k}{10}$
16. $\frac{2.8}{j} = \frac{1.3}{2.71}$
17. $\frac{y}{12} = \frac{2.89}{4.23}$
18. $\frac{5}{8} = \frac{b}{63}$

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Skill: Solving Proportions *(continued)*

19. A contractor estimates it will cost $2,400 to build a deck to a customer's specifications. How much would it cost to build five more identical decks?

20. A recipe requires 3 cups of flour to make 27 dinner rolls. How much flour is needed to make 9 rolls?

21. Mandy runs 4 kilometers in 18 minutes. She plans to run in a 15-kilometer race. How long will it take her to complete the race?

22. Ken's new car can go 26 miles per gallon of gasoline. The car's gasoline tank holds 14 gallons. How far will he be able to go on a full tank?

23. Eleanor can complete two skirts in 15 days. How long will it take her to complete eight skirts?

24. Three eggs are required to make two dozen muffins. How many eggs are needed to make 12 dozen muffins?

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