

Proportions

Solve each proportion.

- 1. $\frac{4}{24} = \frac{x}{6}$ _____
- 2. $\frac{n}{12} = \frac{3}{4}$ _____
- 3. $\frac{2}{9} = \frac{k}{18}$ _____
- 4. $\frac{7}{w} = \frac{28}{32}$ _____
- 5. $\frac{a}{8} = \frac{15}{20}$ _____
- 6. $\frac{20}{32} = \frac{30}{f}$ _____
- 7. $\frac{12}{j} = \frac{14}{21}$ _____
- 8. $\frac{7}{14} = \frac{b}{10}$ _____
- 9. $\frac{16}{36} = \frac{m}{72}$ _____
- 10. $\frac{36}{84} = \frac{15}{z}$ _____
- 11. $\frac{40}{h} = \frac{20}{36}$ _____
- 12. $\frac{12}{15} = \frac{q}{50}$ _____

Write the cross products for each pair of ratios.
Do the two ratios form a proportion? Write *yes* or *no*.

- 13. $\frac{4}{7}$ $\frac{8}{14}$ _____
- 14. $\frac{2}{3}$ $\frac{6}{9}$ _____
- 15. $\frac{3}{12}$ $\frac{1}{4}$ _____
- 16. $\frac{5}{8}$ $\frac{25}{64}$ _____
- 17. $\frac{9}{24}$ $\frac{3}{6}$ _____
- 18. $\frac{6}{24}$ $\frac{5}{20}$ _____
- 19. $\frac{18}{3}$ $\frac{16}{4}$ _____
- 20. $\frac{9}{27}$ $\frac{5}{15}$ _____
- 21. $\frac{4}{16}$ $\frac{6}{18}$ _____
- 22. $\frac{24}{30}$ $\frac{14}{20}$ _____
- 23. $\frac{15}{25}$ $\frac{12}{20}$ _____
- 24. $\frac{4}{28}$ $\frac{6}{42}$ _____
- 25. $\frac{12}{9}$ $\frac{20}{15}$ _____
- 26. $\frac{8}{6}$ $\frac{12}{9}$ _____
- 27. $\frac{12}{18}$ $\frac{14}{20}$ _____

Use proportions to complete the chart below.

Muffin Mixings				
28.	Flour	1 cup	2 cups	3 cups
29.	Muffins		24 muffins	60 muffins

Test Prep

- 30. A study showed that about 1 out of every 50 parts that goes through the assembly line is defective. How many defective parts are likely out of 600 parts? Write the proportion you use to find the answer.

- 31. Find the missing term in the proportion.
 $\frac{12}{27} = \frac{20}{x}$
 - A 36
 - B 45
 - C 42
 - D 48