

Solve each proportion. See Examples 1 and 2, p. 371.

1) $\frac{5}{8} = \frac{x}{24}$

1) _____

2) $\frac{7}{y} = \frac{14}{11}$

2) _____

3) $\frac{12}{15} = \frac{4}{x}$

3) _____

4) $\frac{2y+3}{y} = \frac{3}{2}$

4) _____

5) $\frac{8+x}{5} = \frac{5+x}{3}$

5) _____

6) $\frac{7}{2} = \frac{y-5}{y-3}$

6) _____

Solve. See Example 3, p. 372.

- 7) If there are 156 calories in 3 peanut butter cookies, how many calories are in 7 cookies?

7) _____

- 8) A label printer can print 2 pages of labels in 1.5 seconds. How long will it take to print 10 pages of labels?

8) _____

- 9) Jim drove 287 miles in 7 hours. At this rate, how long will it take him to drive 861 miles?

9) _____

- 10) In a shipment of 35 MP3 players, 2 were found to be defective. How many defective players would be found in a shipment of 280?

10) _____

- 11) Under typical conditions 1.5 feet of snow will melt to 2 inches of water. To how many inches of water will 6 feet of snow melt?

11) _____

- 12) The standard dose of a drug is 8 ml (milliliters) for each 50 pounds of body weight. Find the dose for a 225-pound male.

12) _____

Answers:

- 1) 15; 2) $\frac{11}{2}$; 3) 5; 4) -6; 5) $-\frac{1}{2}$; 6) $\frac{11}{5}$; 7) 364 calories; 8) 7.5 seconds; 9) 21 hours; 10) 16 players; 11) 8 inches; 12) 36 ml