

# Lesson 4.6 Extra Practice

Solve the proportion. Explain your choice of method.

- 1.  $\frac{2}{3} = \frac{a}{15}$   
 $a = 10$
- 2.  $\frac{4}{7} = \frac{44}{m}$   
 $m = 77$
- 3.  $\frac{d}{6} = \frac{72}{48}$   
 $d = 9$
- 4.  $\frac{10}{h} = \frac{15}{90}$   
 $h = 60$
- 5.  $\frac{3}{n} = \frac{4}{12}$   
 $n = 9$
- 6.  $\frac{4}{g} = \frac{6}{24}$   
 $g = 16$
- 7.  $\frac{w}{5} = \frac{320}{10}$   
 $w = 160$
- 8.  $\frac{28}{4} = \frac{t}{7}$   
 $t = 49$
- 9.  $\frac{88}{44} = \frac{k}{52}$   
 $k = 104$
- 10.  $\frac{3}{42} = \frac{4}{p}$   
 $p = 56$
- 11.  $\frac{15}{24} = \frac{x}{8}$   
 $x = 5$
- 12.  $\frac{c}{52} = \frac{3}{4}$   
 $c = 39$

13. Your friend solves the proportion  $\frac{2}{45} = \frac{b}{315}$ .  
Is your friend correct? Explain your reasoning.

yes

$\frac{2}{45} = \frac{b}{315}$ $2 \cdot 315 = 45 \cdot b$ $14 = b$
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Use the table to write a proportion.

14.

	August	September
Hurricanes	2	1
Storms	6	$n$

$\frac{2}{6} = \frac{1}{n}$   $n = 3$

15.

	Day 1	Day 2
Wins	$w$	8
Races	21	12

$\frac{w}{21} = \frac{8}{12}$   $w = 14$

Find the value of  $x$  so that the ratios are equivalent.

16. 1 : 6 and 8 :  $x$

$\frac{1}{6} = \frac{8}{x}$   $x = 48$

17. 15 to 45 and  $x$  to 90

$\frac{15}{45} = \frac{x}{90}$   $x = 30$

18. 2 :  $x$  and 5 : 35

$\frac{2}{x} = \frac{5}{35}$   $x = 14$

19. 4 to 12 and 10 to  $x$

$\frac{4}{12} = \frac{10}{x}$   
 $x = 30$

20. 36 : 4 and  $x$  : 9

$\frac{36}{4} = \frac{x}{9}$   
 $x = 81$

21. 0.5 to 7 and 3 to  $x$

$\frac{0.5}{7} = \frac{3}{x}$   
 $x = 42$