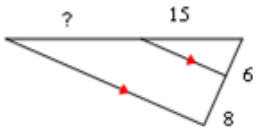
6.3 PRACTICE

Find the missing length indicated.

1.

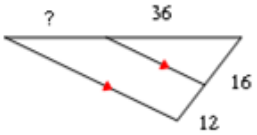


$\frac{15}{6} = \frac{x}{8}$

$\frac{120}{6} = \frac{6x}{6}$

$20 = x$

2.

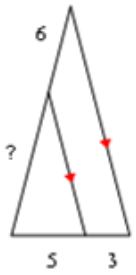


$\frac{36}{16} = \frac{x}{12}$

$\frac{432}{16} = \frac{16x}{16}$

$27 = x$

3.



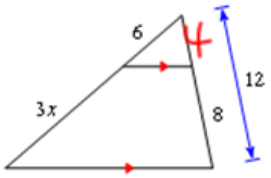
$\frac{6}{3} = \frac{x}{5}$

$\frac{30}{3} = \frac{3x}{3}$

$10 = x$

Solve for *x*.

4.

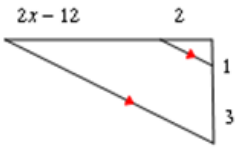


$\frac{6}{4} = \frac{3x}{8}$

$\frac{48}{12} = \frac{12x}{12}$

$4 = x$

5.



$\frac{2}{1} = \frac{2x-12}{3}$

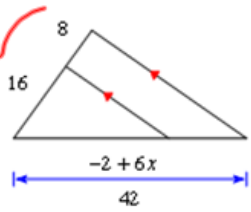
$6 = 2x - 12$

$+12 \quad +12$

$\frac{18}{2} = \frac{2x}{2}$

$9 = x$

6.



24

$\frac{16}{-2+6x} = \frac{24}{42}$

$24(-2+6x) = 672$

$-48 + 144x = 672$

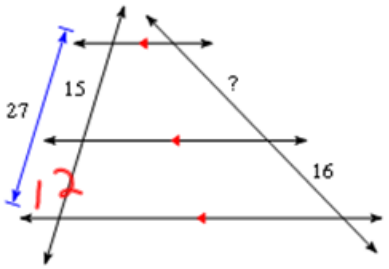
$+48 \quad +48$

$\frac{144x}{144} = \frac{720}{144}$

$x = 5$

Find the missing length indicated.

7.

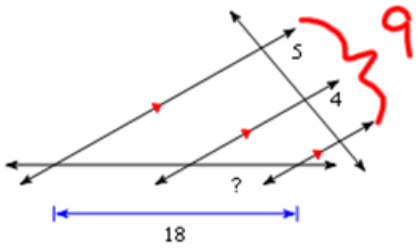


$\frac{15}{x} = \frac{12}{16}$

$\frac{240}{12} = \frac{12x}{12}$

$20 = x$

8.

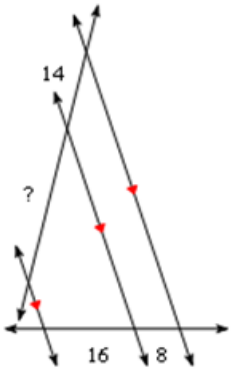


$\frac{4}{x} = \frac{9}{18}$

$\frac{9x}{9} = \frac{72}{9}$

$x = 8$

9.



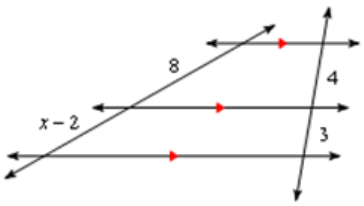
$\frac{x}{16} = \frac{14}{8}$

$\frac{8x}{8} = \frac{224}{8}$

$x = 28$

Solve for *x*.

10.



$\frac{8}{4} = \frac{x-2}{3}$

$24 = 4(x-2)$

$24 = 4x - 8$

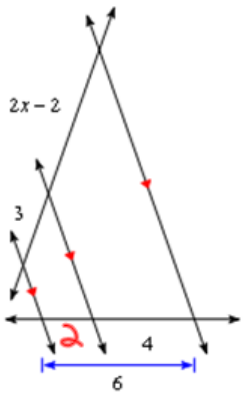
$+8 \quad +8$

$32 = 4x$

$\frac{32}{4} = \frac{4x}{4}$

$8 = x$

11.



$\frac{3}{2} = \frac{2x-2}{4}$

$2(2x-2) = 12$

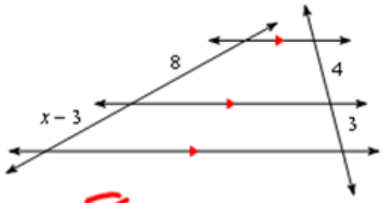
$4x - 4 = 12$

$+4 \quad +4$

$\frac{4x}{4} = \frac{16}{4}$

$x = 4$

12.



$\frac{8}{4} = \frac{x-3}{3}$

$24 = 4(x-3)$

$24 = 4x - 12$

$+12 \quad +12$

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

$9 = x$