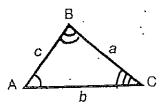
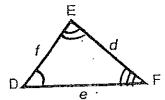
Pre-Algebra

Chapter 8-3 - Similar Triangles and Proportions

(round answers to looths)

 \triangle ABC \sim \triangle DEF. The letters a, b, c, d, e, and f represent the lengths of the sides.





- $\hat{1}$ Find e, if a = 8, d = 22, b = 4.
- 2) Find d, if b = 6, e = 15, a = 8.
- 3) Find a, if f = 32, c = 12, d = 24.
- 4) Find c, if f = 15, b = 7, e = 3.
- **5)** Find f, if $c = 2\frac{1}{2}$, d = 24, a = 10.
- 6) Find b, if c = 5, e = 7, f = 9.
- 7) Find a, if b = 11, e = 8, d = 6

1)
$$e =$$

5)
$$f=$$

2)
$$d =$$

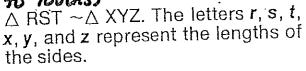
3)
$$a =$$

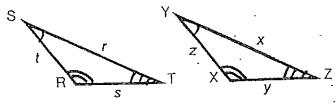
7)
$$a =$$

4)
$$c =$$

8)
$$t =$$

15) A flagpole casts a shadow 25 meters long. If a woman who is 1.6 meters tall casts a shadow 4 meters long at the same time and location, the flagpole is _____ meters tall.





- 8) Find t, if $s = 1\frac{1}{2}$, y = 5, z = 8.
- **4)** Find y, if s = 42, r = 9, x = 2.
- 10) Find r, if z = 5, $x = 2\frac{1}{3}$, t = 12.
- 11) Find x, if s = 2, r = 2.3, y = 3.4.
- 12) Find s, if z = 3, y = 4.8, t = 1.2.
- 13) Find z, if r = x, t = 4.39.
- 14) Find t, if y = 3, s = 2, z = 1

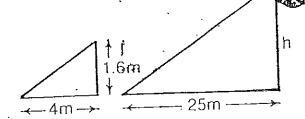
13)
$$z =$$

$$10) r =$$

14)
$$t =$$

$$11)x =$$

$$12)s =$$



) A building casts a shadow 37.5 meters long. If a meter stick casts a shadow 3 meters long at the same time and location, the building is _____ meters high.