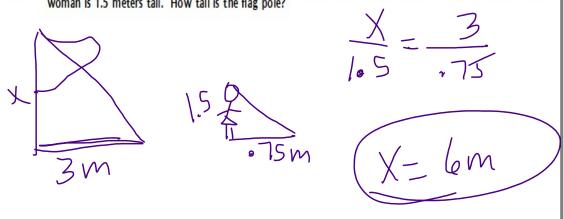
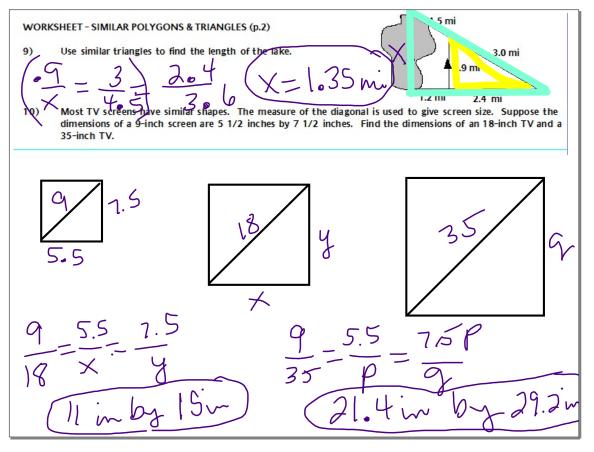
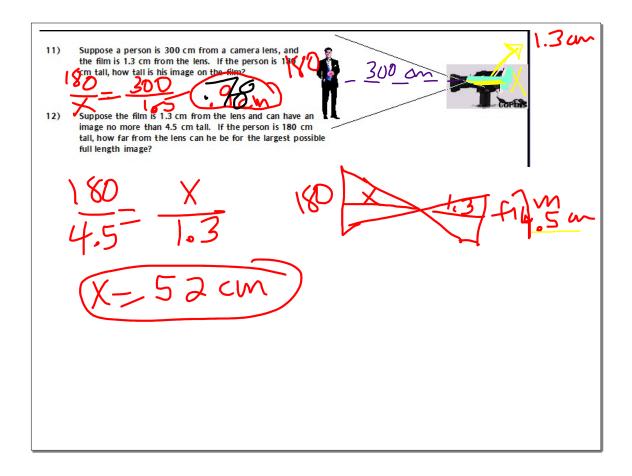


8) A flag pole casts a shadow 3 meters long. A woman near the pole casts a shadow 0.75 meters long. The woman is 1.5 meters tall. How tall is the flag pole?





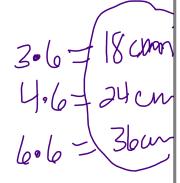


14) The measures of two supplementary angles are in the ratio 14:31. Find the measure of each angle.

$$14x + 31x = 180$$
 $14.4 = 56^{\circ}$
 $14.4 = 56^{\circ}$
 $31.4 = 124^{\circ}$

15) A 78cm segment is divided into three parts whose lengths are in the ratio 3:4:6. Find the length of each part of the segment.

$$3x + 4x + 6x = 78$$
 $13x = 78$
 $x = 6$



16) A quadrilateral has a perimeter of 92 cm and one side measures 16 cm. The lengths of the other three sides are in the ratio 5:6:8. Find the lengths of the three missing sides.

$$5x+bx+8x+1b=92$$
 $19x+1b=92$
 $5.4+20$
 $19x=7b$
 $6.4+24$
 $x=4$
 $8.4+3$