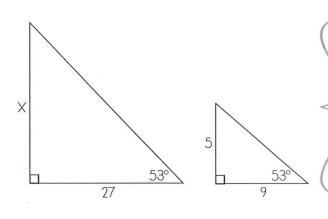
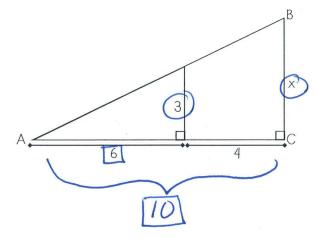
FINDING MISSING MEASURES IN SIMILAR TRIANGLES

- *IN SIMILAR TRIANGLES THE CORRESPONDING ANGLES ARE <u>Congruent</u> AND THE CORRESPONDING SIDES ARE <u>proportional</u>.
- *BECAUSE OF THIS YOU CAN USE A __proportion_____ TO SOLVE FOR MISSING SIDE LENGTHS IN SIMILAR TRIANGLES.



SHOW YOUR WORK $\frac{x}{5} \times \frac{27}{9}$ Cross multiply 9x = 135 x = 15



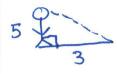
SHOW YOUR WORK $\frac{x}{3} = \frac{10}{6}$

$$6x = 30$$

$$X = 5$$

SARAH WANTS TO USE SHADOWS TO MEASURE THE HEIGHT OF THE SCHOOL.

SARAH IS 5FT TALL AND CASTS A SHADOW 3FT LONG.
IF THE SCHOOL CASTS A SHADOW THAT IS 27FT LONG
HOW TALL IS THE SCHOOL?





SHOW YOUR WORK

$$\frac{27}{3} = \frac{\times}{5}$$

OAMAZING MATHEMATIC