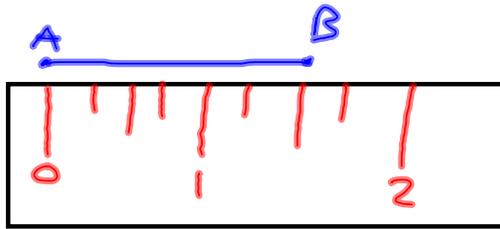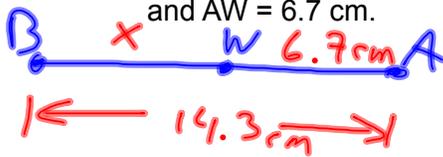Geometry Review Quiz 1-1 to 1-3

For 1 and 2, use this figure.

A _____ B

0   1   2

1.) Find the length of $\overline{AB}$

$1\frac{2}{4}$ in on $/\frac{1}{2}$ in

2.) Find the length of $\overline{BW}$ if W is between B and A, BA = 14.3 cm and AW = 6.7 cm.

B ___x___ W 6.7cm A $14.3 - 6.7 = \boxed{7.6cm}$

|← 14.3cm →|

3.) Find x if $\overline{AB} \cong \overline{CD}$, AB = 2x-5 and CD = 35

$2x - 5 = 35$
$\underline{+5 \quad +5}$
$\frac{2x}{2} = \frac{40}{2}$

$\boxed{x = 20}$

4.) Find the length of $\overline{BO}$ if M is between B and O, BM = 5x-3,
MO = 12 inches, and BO = 8x-3

B $\;$ 5x-3 $\;$ M 12 in O

|← 8x-3 →|

$5x - 3 + 12 = 8x - 3$

$5x + 9 = 8x - 3$

$\quad +3 \qquad +3$

$5x + 12 = 8x$

$-5x \qquad\quad -5x$

$\dfrac{12}{3} = \dfrac{3x}{3}$

$4 = x$

$BO = 8x - 3$

$= 8(4) - 3$

$BO = 32 - 3$

$BO = 29 \text{ in}$