Barbie Wrap-Up

Tuesday, February 16, 2010
11:18 AM

Barbie foot: 2.5 cm

Person foot: 21 cm

Scale factor: $\frac{2.5\text{ cm}}{21\text{ cm}} = 0.11$

Barbie Height: 29.2 cm

"Real" height:

$$\frac{BH}{RH} \quad \frac{29.2\text{ cm}}{x\text{ cm}} = \frac{BF}{RF} \quad \frac{2.5\text{ cm}}{21\text{ cm}}$$

$$(2.5\text{ cm})(x\text{ cm}) = (29.2\text{ cm})(21\text{ cm})$$

$$x = \frac{(29.2\text{ cm})(21\text{ cm})}{2.5\text{ cm}}$$

Proportions

Tuesday, February 16, 2010
10:50 AM

$x \cdot 16 = 12 \cdot 20 \Rightarrow x = 15$

1. If $\frac{u}{v} = \frac{w}{x}$, then which of the following are also true?

(a) $\frac{u+v}{v} = \frac{w+v}{x}$ (b) $ux = wv$ (c) $\frac{u}{v} = \frac{x}{w}$ (d) $\frac{u+v}{v} = \frac{w+x}{x}$

(e) $\frac{u}{x} = \frac{w}{v}$ (f) $\frac{x}{w} = \frac{v}{u}$ (g) $uw = vx$

Screen clipping taken: 2/16/2010, 10:53 AM