Unit analysis

Monday, January 4, 2021 1:29 PM

2.5 cm = 1 inch

100 cm = 1 m

1000 mm = 1 m

2.2 lbs = 1 kg

1000 g = 1 kg

17 inches = ? cm

$$\frac{17 \text{ inches}}{1} \times \frac{2.5 \text{ cm}}{1 \text{ inch}} = 42.5 \text{ cm}$$

21 lbs = ? kg

$$21 \text{ lbs} \times \frac{1 \text{ kg}}{2.2 \text{ lbs}} = \frac{21}{2.2} = 9.5 \text{ kg}$$

30 cm = ? mm

$$30 \text{ cm} \times \frac{10 \text{ mm}}{1 \text{ cm}} = 300 \text{ mm}$$

1 tablespoon = 15 mL

450 mL = ? tbsp

$$\frac{450 \text{ mL}}{1} \times \frac{1 \text{ tbsp}}{15 \text{ mL}} = \frac{450 \text{ tbsp}}{15} = 30 \text{ tbsp}$$