Get Ready for Unit 3

Learning Goal: By the end of today I will be able to convert in imperial and metric units and between as well as square units.

CONVERSION

To convert between units use your conversion sheet as follows. Whenever 1 of something equals a number you multiply to get the amount of the units. Going the opposite way, you divide. Another way to think of it is when you are going from a larger unit to a smaller one, you multiply and when you go from the smaller unit to the larger one, you divide.

For example:

$$250 \text{cm} = 2.5 \text{ m}$$

$$|00 \text{ cm}| = 2.5 \text{ m}$$

$$|250 \text{ cm}| = 2.5 \text{ m}$$

On the conversion sheet 100cm = 1 m. In this question we are going from cm to m. so we are going to divide they number by 100 which gives us

250 cm = 2.5 m

Try the top 2 sets of questions on the handout

$$4m = 400 \text{ cm}$$

$$5 \text{ cm} = 50 \text{ mm}$$

$$\frac{Me+hod2}{Im} = 4m$$

$$100 \text{ cm} = \frac{4m}{x}$$

$$\frac{1_{cm}}{100 \text{ cm}} = \frac{5}{x}$$

$$\frac{1_{cm}}{100 \text{ mm}} = \frac{5}{x}$$

$$5 \times 10 = x$$

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Try the questions on the bottom of the handout

$$32m^{2} = 320000 \text{ cm}^{2}$$

$$|m = 100 \text{ cm} \qquad 5q. \text{ Rule}$$

$$|m^{2} = 10000 \text{ cm}^{2}$$

$$4546 \text{ cm}^{2} = 0.4546 \text{ m}^{2} \text{ *}$$

$$|m = 100 \text{ cm} \qquad \frac{1m^{2}}{10000 \text{ cm}^{2}} = \frac{x}{4546a}$$

$$|m^{2} = 10000 \text{ cm}^{2} \qquad 10000 \text{ cm}^{2}$$

$$678 \ 456.4cm = \underline{6.784564} \ \text{km}$$

$$|m = 100 \ \text{cm} \Rightarrow \frac{|n|}{100cm} = \frac{x}{678456.4}$$

$$|km = 1000 \ \text{m} \Rightarrow \frac{|km|}{1000m} = \frac{x}{7}$$

$$\frac{4356 \ \text{yds}}{1760 \ \text{yds}} = \frac{2.475}{1760} \ \text{mile} = \frac{x}{1760 \ \text{yds}}$$

$$\frac{|m| = 1760 \ \text{yds}}{1760} = \frac{x}{1760}$$