

Geometry 9/14

Warm Up IXL

6th Grade

Z.8

0-2 Changing Units between Systems

I can convert units of measure between the customary and metric systems

Units of Length	
Customary → Metric	Metric → Customary
1 in. \approx 2.5 cm	1 cm \approx 0.4 in.
1 yd \approx 0.9 m	1 m \approx 1.1 yd
1 mi \approx 1.6 km	1 km \approx 0.6 mi

Ex.1 Complete each sentence

A. 30 in \approx 75 cm

$$30 \cdot 2.5$$

B. 5 km \approx 3 mi

$$5 \cdot 0.6$$

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Ex. 2 Complete: 2000 yd \approx _____ km

$$2000 \cdot 0.9 = 1800 \text{ m}$$

$$1 \text{ km} = 1000 \text{ m}$$

$$\frac{1800}{1000} = 1.8 \text{ km}$$

I can convert units of measure between the customary and metric systems

Units of Capacity	
Customary → Metric	Metric → Customary
1 qt \approx 0.9 L	1 L \approx 1.1 qt
1 pt \approx 0.5 L	1 L \approx 2.1 pt

Ex. 3 Complete each sentence

A. 7 qt \approx _____ L

$$7 \cdot 0.9 = 6.3$$

B. 2 L \approx _____ pt

$$2 \cdot 2.1 = 4.2$$

I can convert units of measure between the customary and metric systems

Units of Capacity	
Customary → Metric	Metric → Customary
1 qt ≈ 0.9 L	1 L ≈ 1.1 qt
1 pt ≈ 0.5 L	1 L ≈ 2.1 pt

Ex. 4 Complete: 10 L ≈ _____ gal

$$10 \cdot 0.9 = 9 \text{ qt}$$

$$1 \text{ gallon} = 4 \text{ qt}$$

$$\frac{9}{4} = 2.25 \text{ gal}$$

I can convert units of measure between the customary and metric systems

Units of Weight/Mass	
Customary → Metric	Metric → Customary
1 oz \approx 28.3 g	1 g \approx 0.04 oz
1 lb \approx 0.5 kg	1 kg \approx 2.2 lb

Ex. 5 Complete each sentence

A. 58.5 kg \approx _____ lb

$$58.5 \cdot 2.2 = 128.7 \text{ lb}$$

B. 14 oz \approx _____ g

$$14 \cdot 28.3 = 396.2 \text{ g}$$

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Units of Capacity	
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Units of Weight/Mass	
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Hmwk Pg P7

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