4.1 - Systems of Measurement

Day 2...

Sep 11-1:09 PM

TRY THIS ONE...

A 3-D puzzle of the Eiffel Tower has a scale of 1:360. In the puzzle, the tower is $35\frac{2}{5}$ in. tall. What is the height of the Eiffel Tower in feet?

$35 \times 360 = 12\,600''$

$\frac{2}{5} \times 360 = \frac{720}{5}$

$= 144''$

$12\,600 + 144 = 12\,744''$

$12744 \div 12 = 1062'$

16. 1062 ft.

1.1 Imperial Measures of Length

Exercise #16

Convert 3689 seconds to hours.

$$3689\,s \times \frac{1\ min}{60\ s} \times \frac{1\ hr}{60\ min} = 1.02\ hr$$

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$3.86\,m = \_\_\_\_\_\ in$

$3.86\,m \times \frac{100\ cm}{1\ m} \times \frac{1\ in}{2.54\ cm}$

$= 151.97''$

$82.75\ km = \_\_\_\_\_\ yd$

$82.75\ km \times \frac{1000\ m}{1\ km} \times \frac{1.0936\ yd}{1\ m} = 90495.4$

$82.75\ km \times \frac{1\ mi}{1.6093\ km} \times \frac{1760\ yd}{1\ mi} = 90498.97$

Worksheet Examples

1. Convert to inches

6 feet $8\frac{1}{2}$ inches $= 80\frac{1}{2}''$

2. Convert to Feet and inches

$69\frac{1}{2}$ inches $= 5' 9\frac{1}{2}''$

$\div 12$

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HOMEWORK...

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  Do questions: #1-5; 8

End of lesson

Attachments

Worksheet - Intro. to Imperial Measurement.docx