Problems with the homework...

4.
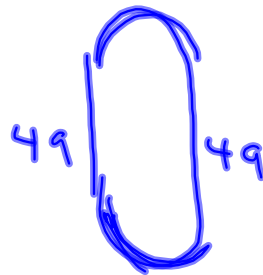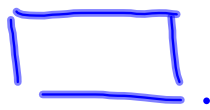
$dist = 2\pi r + 49 + 49$

$= 2\pi(16) + 49 + 49$

$= 198.53$ ft

$\dfrac{198.53}{8} = 24.82$ pieces of plywood

25 pieces $\times$ $\$14.15$/piece

$= \$353.75$

(total cost)

8

36   C   30

66"

B

4'

36"   A

48"   18"

11' = 132"
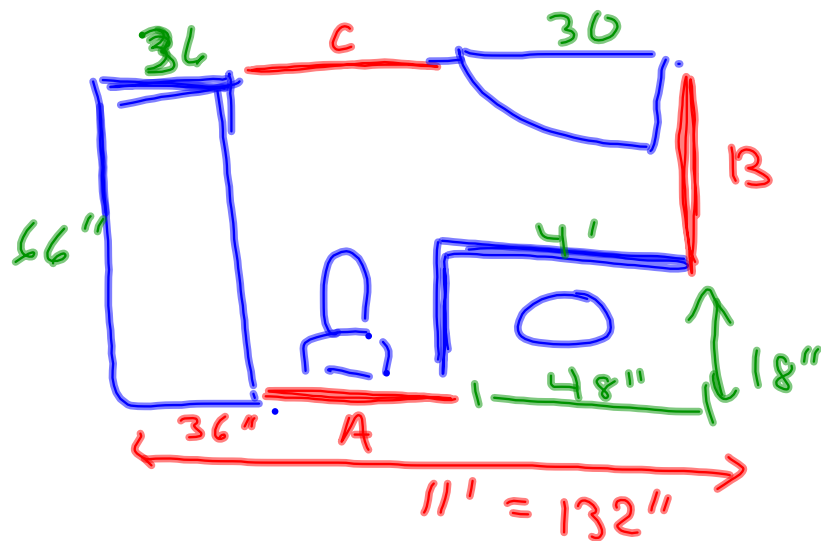
A = 132 - 36 - 48
= 48"

B = 66" - 18"
= 48"

C 132" - 36 - 30
= 66"

Footage = 4' + 4' + 5.5'
= 13.5 ft

Markup = 13.5 x 1.15
= 15.525 ft

Cost 15.525 ft x $6.50/ft = $100.91

$45/hr x 2.5hr = $112.50

$213.41

5.

$r = 4' \, 3''$

$\quad = 4.25'$

$Dist = 2\pi r + 8(4.25)'$

$\quad = 2\pi(4.25) + 8(4.25) \quad ft$

$\quad = 60.70 \; ft$

$\#Rolls = 60.70 / 20$

$\quad = 3.035$

$\quad = 4$

$Cost = 4 \times 9.99$

$\quad = \$39.96$

Warm up

inches ⟶ feet ⟷ yard ⟷ mile

smallest to largest
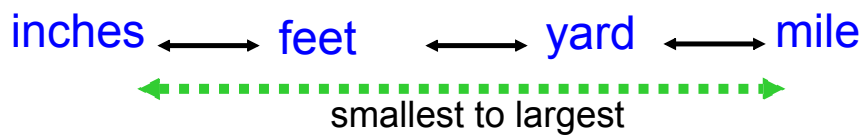
| 1 foot = 12 inches | 1 yard = 3 feet | 1 mile = 1760 yards |

1. Convert 4.8 feet to inches __57.6 in__

$$4.8 \text{ ft} \times \frac{12 \text{ in}}{1 \text{ ft}}$$

2. Convert 8 miles to yards __14 080 yd__

$$8 \text{ mi} \times \frac{1760 \text{ yd}}{1 \text{ mi}}$$

3. Convert 3.2 yards to inches __115.2 in__

$$3.2 \text{ yd} \times \frac{3 \text{ ft}}{1 \text{ yd}} \times \frac{12 \text{ in}}{1 \text{ ft}}$$

1 foot = 12 inches   1 yard = 3 feet   1 mile = 1760 yards

4. Convert 22 miles to feet __116 160 ft__

$$22\ mi \times \frac{1760\ yd}{1\ mi} \times \frac{3\ ft}{1\ yd}$$

5. Convert 250 560 inches to miles __3.95 mi__

$$250\ 560\ in \times \frac{1\ ft}{12\ in} \times \frac{1\ yd}{3\ ft} \times \frac{1\ mi}{1760\ yd}$$

Homework

Worksheet #1   Worksheet #2

Attachments

Section 4.1 Conversion Worksheet.pdf

imperial measurement_convert_general.pdf