

Chp. 1: Measurement

Section 1.1: Imperial Measures

Conversion table

$$1 \text{ ft} = 12 \text{ inches}$$

$$1 \text{ yd} = 3 \text{ ft} \text{ or } 36 \text{ in}$$

$$1 \text{ mi} = 1760 \text{ yds} \text{ or } 5280 \text{ ft}$$

Example 1:

Convert 5 yds to inches.

$$5 \times 36 = 180 \text{ inches}$$

Ex. 2 a) Convert 60 in to ft

$$60 \div 12 = 5 \text{ ft}$$

b) Convert 70 in to ft

$$70 \div 12 = 5.83$$

60 in = 5 ft
then 70 in
5 ft, 10 in

* .83 of another
foot
.83 \times 12 = 10 inches
5 ft, 10 in

ex.3 Convert 4 yds 2 ft 8 in
to total number of inches.

$$4 \times 36$$

$$2 \times 12$$

$$144 + 24 + 8$$

$$= 176 \text{ inches}$$

ex.4) Convert 318 inches
to ___ yds ___ ft ___ in

$$\text{convert to ft} \Rightarrow 318 \div 12 = 26.5$$

$$\underline{26 \text{ ft}}, \underline{6 \text{ in}}$$

$$\text{convert to yds} \Rightarrow 26 \div 3 = 8.67$$

$$\underline{8 \text{ yds}}, \underline{2 \text{ ft}}, \underline{6 \text{ in}}$$

Practice

1. Convert 567 inches to
 ___ yds ___ ft ___ in

$$567 \div 12 = 47.25$$

↑
47ft

↑ .25 of a ft
3 inches

convert
to yds

$$47 \div 3 = 15.67$$

↑
.67 of a yd
.67 x 3 ft
= 2ft

15 yds, 2 ft, 3 in

2. Convert 466 inches

12 yd 2 ft 10 in