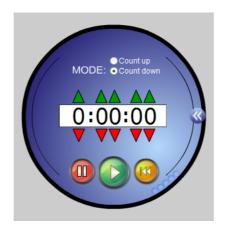
Warm-Up Question

Convert each measure.

a)
$$0.87 \text{ L to cL}$$
 (3.08 bg to dg)
 $(3.0$

You have 6 minutes to start #1-20 on the steel ruler handout.



THE IMPERIAL SYSTEM

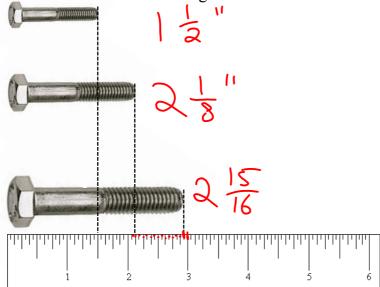


Today, the __imperial _system __ of measurement is most widely used in the __United _States __ and in a few _Caribbean countries. Even though Canada officially adopted the __metric _system in _1970 _, many Canadian industries continue to use the __imperial _system _.

FRACTIONS OF AN INCH

The inch is the smallest measure of length in the imperial system. Whole inches are the tallest lines on a ruler. When measuring length that are not a whole inch, fractions of an inch are used.

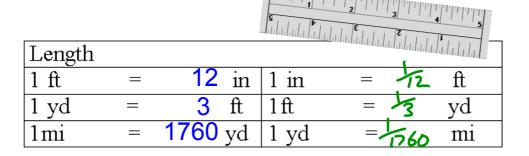
Find the measures of the following bolts in inches.



You have minutes to start #21-40 on the steel ruler handout.



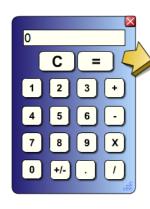
IMPERIAL - IMPERIAL CONVERSION TABLES



| Mass | | | | | |
|------|---|----------------|------|-----|--------|
| 1 lb | = | 16 oz | 1 oz | = | 16 lb |
| 1 T | = | 2000 lb | 1 lb | = 4 | 2000 T |

| Volume | | | |
|--------|---|---------------------------|---------------|
| 1 pt | = | 16 fl oz 1 fl oz | = 16 pt |
| 1 qt | = | 2 pt 1 pt | = 1 qt |
| 1 gal | = | 4 qt 1 qt | = y gal |
| 1 c | = | 8 floz 1 floz | = |
| - | | | 8 |

EXAMPLES



1. Complete the following conversions:

a) 2 ½ ft to inches

$$= 2.5 \times 12$$

= 30
 $\therefore 2^{1} = 30^{1}$

b) 48 oz to pounds

$$= \frac{48 \times 1}{16}$$
= $\frac{48 \times 1}{16}$
= $\frac{48 \times 1$

2. Convert 2½ cups to fluid ounces.

$$2\frac{1}{4} = 2.25$$

= 2.25×8
= 18 $\therefore 2\frac{1}{4} = 18902$

3. Convert the following fluid ounces to pints.

a) 80 fl oz
$$= \frac{80 \times 1}{16}$$

$$= \frac{44 \times 1}{16}$$

$$= 5 \text{ pints}$$

$$= 5 \text{ pints}$$
b) 44 fl oz
$$= 2.75$$

$$= 2.75 \text{ pints}$$

4. Calculate the cost, including taxes, to carpet your bedroom that has dimensions 10 ft by 13 ft. The carpet cost \$20.50 / square yard.

Do conversions first
=
$$10 \times \frac{1}{3} = 13 \times \frac{1}{3}$$

= $3.33 = 4.33$
A = $1 \times W$
A = 3.33×4.33
= 14.41×20.50
= 295.41×1.13
total cost = 295.41×1.13
= # 333.81