WARM-UP...Convert each of the following:

a) 78 in =
$$\frac{6}{100}$$
 ft $\frac{6}{100}$ in $\frac{1}{100}$ in $\frac{1}{100}$ in

b)
$$15 \text{ ft} = \frac{72 \text{ inches}}{180} \text{ in } \frac{78}{185} = 357$$

c)
$$2.5 \text{ mi} = 69400 \text{ inches}$$

d) 250 " =
$$\frac{20.83}{81}$$
 ft

e)
$$500 \text{ yds} = 1500 \text{ ft}$$

f)
$$(7')$$
 2" = $\frac{2}{2}$ yd $\frac{1}{2}$ ft $\frac{2}{2}$ in

e)
$$500 \text{ yds } x - \frac{3 \text{ ft}}{1 \text{ yd}}$$

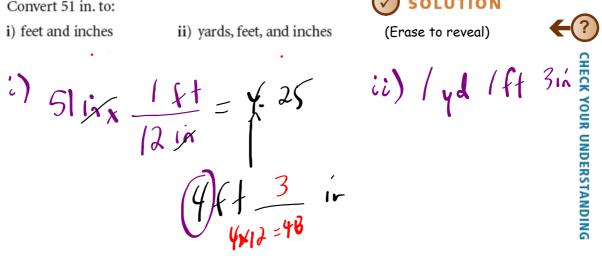
Example 1

Converting between Imperial Units

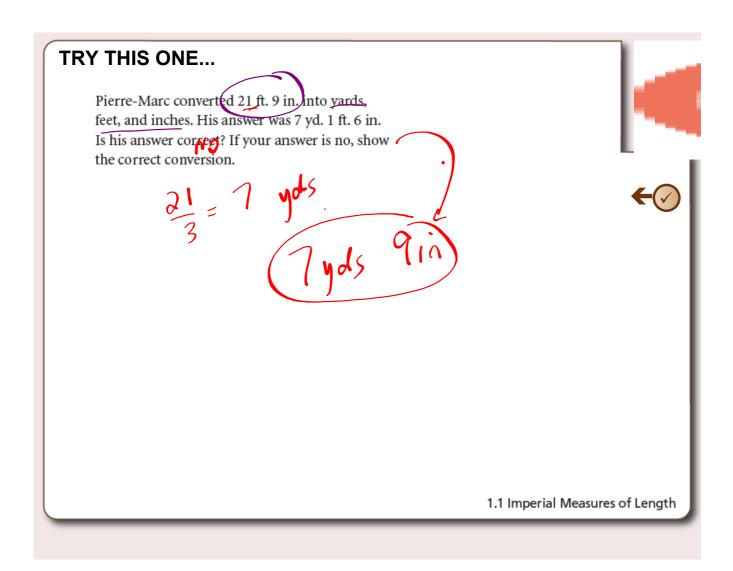
- a) Convert 5 yd. to:
 - i) feet 5 yd. = 15 ft.
- 5 yd. = 180 in. ii) inches
- SOLUTION



b) Convert 51 in. to:



1.1 Imperial Measures of Length



Example 2

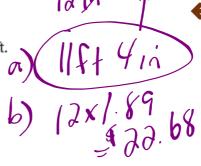
Solving a Problem Involving Converting between Units

Anne is framing a picture. * Perimeter - distance around the figure The perimeter of the framed picture will be 136 in. 36.7×10^{-1}

- a) What will be the perimeter of the framed picture in feet and inches?
- b) The framing material is sold by the foot. It costs \$1.89/ft. What will be the cost of material before taxes?



(Erase to reveal)



CHECK YOUR UNDERSTANDING



1.1 Imperial Measures of Length

Example 3

Solving a Problem Involving Two Unit Conversions

The school council has 6 yd. of fabric that will be cut into strips 5 in. wide to make decorative banners for the school dance.

a) How many banners can be made?



(Erase to reveal)

$$6 \text{ ydx} \times \frac{3 \text{ ft}}{1 \text{ yd}} \times \frac{12 \text{ in}}{1 \text{ ft}} = 216 \text{ in}$$

1.1 Imperial Measures of Length

HOMEWORK...

Worksheet - Converting Imperial Lengths.docx

Worksheet - Converting Imperial Lengths.docx