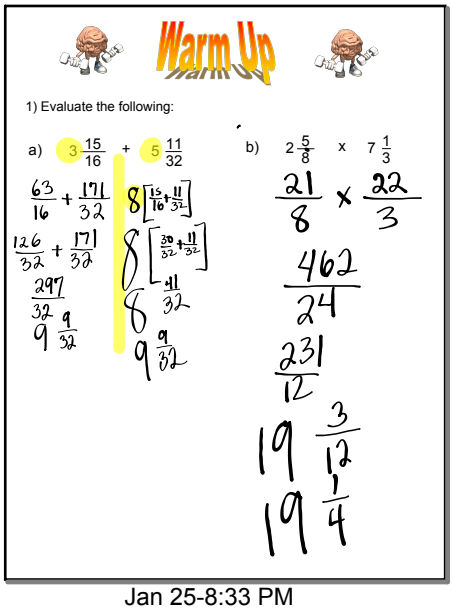
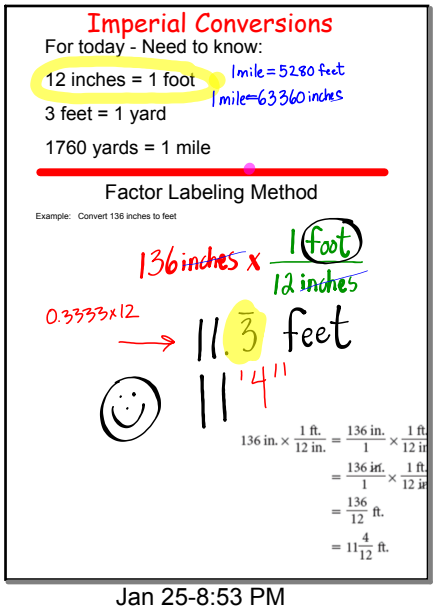


Jan 25-8:33 PM



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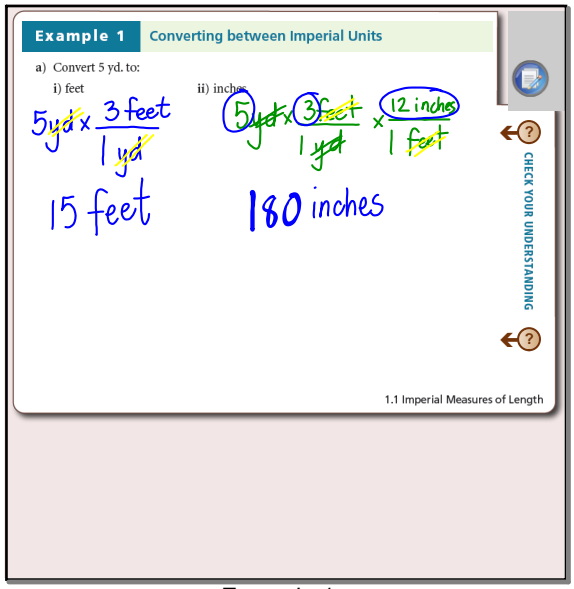
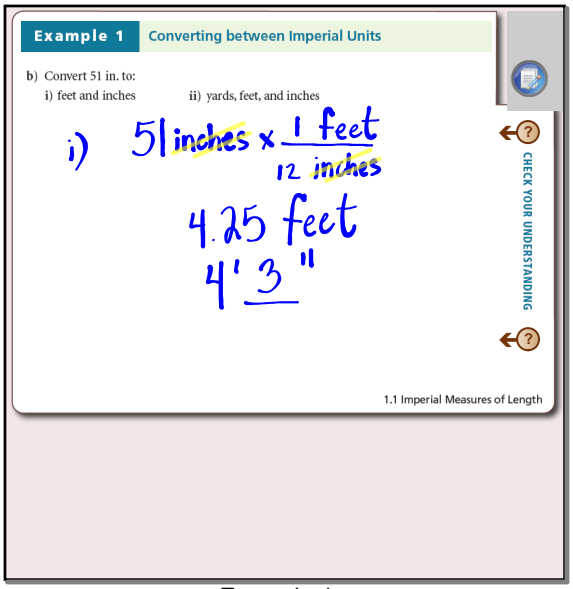
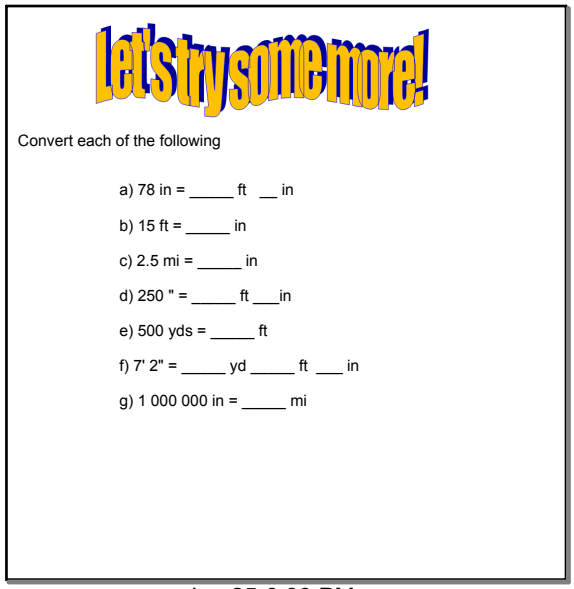


Example 1



Example 1



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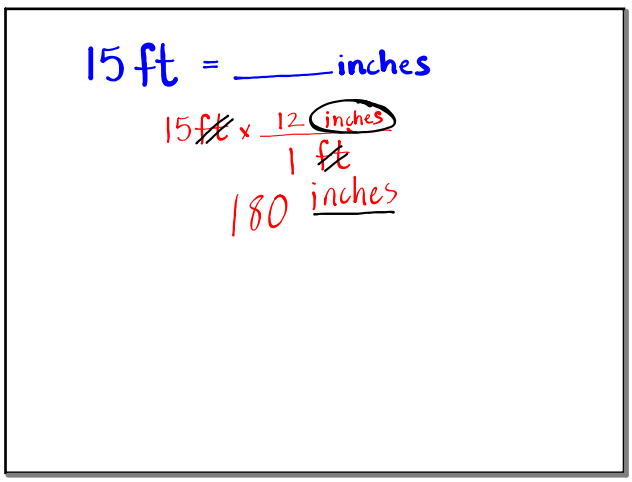


Sep 8-2:40 PM

23 miles = _____ yards

$23 \text{ miles} \times \frac{1760 \text{ yards}}{1 \text{ miles}} = 40480 \text{ yds}$

Sep 8-2:42 PM

5000 yds = _____ miles

$5000 \text{ yds} \times \frac{1 \text{ miles}}{1760 \text{ yds}} = 2.8409....$

Sep 8-2:44 PM

5.7 miles = 30096 feet

$5.7 \text{ miles} \times \frac{1760 \text{ yd}}{1 \text{ miles}} \times \frac{3 \text{ feet}}{1 \text{ yd}}$

30096 feet

Sep 8-2:46 PM

3 miles = 5280 yards

$3 \text{ miles} \times \frac{1760 \text{ yds}}{1 \text{ miles}}$

18 yds = _____ feet

$18 \text{ yd} \times$ _____

Sep 8-2:53 PM

a) 78 in = _____ ft ___ in

b) 15 ft = _____ in

Jan 25-8:38 PM

c) 2.5 mi = _____ in

d) 250 " = _____ ft

Jan 25-8:39 PM

e) 500 yds = _____ ft

Jan 25-8:40 PM

f) 7' 2" = _____ yd = _____ ft ___ in

Jan 25-8:38 PM

g) 1 000 000 in = _____ mi

Jan 25-8:40 PM

TRY THIS ONE...

Pierre-Marc converted 21 ft. 9 in. into yards, feet, and inches. His answer was 7 yd. 1 ft. 6 in. Is his answer correct? If your answer is no, show the correct conversion.

1.1 Imperial Measures of Length

Exercise #12

Example 2 Solving a Problem Involving Converting between Units

Anne is framing a picture.
The perimeter of the framed picture will be 136 in.

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?

SOLUTION

* Perimeter - distance around the figure

CHECK YOUR UNDERSTANDING

1.1 Imperial Measures of Length

Example 2

Example 2 Solving a Problem Involving Converting between Units

Anne is framing a picture.
The perimeter of the framed picture will be 136 in.

136 in. × 1 ft / 12 in. = 11.3 ft

12 ft

b) The framing material is sold by the foot. It costs $1.89/ft. What will be the cost of material before taxes?

SOLUTIONS

a) **Method 1**

To convert inches to feet, divide by 12.

$136 \text{ in.} = \frac{136}{12} \text{ ft.}$

$136 \text{ in.} = 11\frac{4}{12} \text{ ft.}$

So, 136 in. = 11 ft. 4 in.

The perimeter of the framed picture will be 11 ft. 4 in.

(Solution continues.)

1.1 Imperial Measures of Length

Example 2 Solution, p. 1

$\frac{\$1.89}{1\text{ ft}} \times 12\text{ ft} = \$22.68$

Sep 9-2:45 PM

Example 2 Solving a Problem Involving Converting between Units

b) The perimeter of the framed picture is greater than 11 ft., so Anne must buy 12 ft. of framing material.

The cost, C, is:
$C = 12(\$1.89)$
$C = \$22.68$

Before taxes, the material will cost $22.68.

CHECK YOUR UNDERSTANDING

1.1 Imperial Measures of Length

Example 2 Solution, p. 3

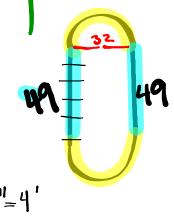
Class/ Homework

Worksheet: Converting Imperial Lengths
(all questions)
And

p. 150: #1 to 6 and 8

Jan 25-8:45 PM

p150#4 distance around a circle



$C = \pi d$
$= \pi(32)$
100.48

$49 + 49 + 100.48$

198.48 feet

48" = 4'

$\div 8$
$= 24.81 \rightarrow 25$ boards

25 boards x \$14.15

\$353.75

Sep 8-11:19 AM

Attachments

Worksheet - Converting Imperial Lengths.docx