Curriculum Outcome

M3: Solve problems using SI and imperial units that involve linear measurement using estimation and measurement strategies

Student Friendly: The relationship between measurement units such as

$$1 \text{ yd} = 3 \text{ ft}$$







Convert each of the following:

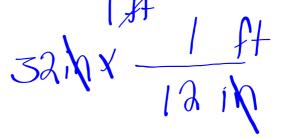
a)
$$\frac{112}{-108}$$
 in = $\frac{9}{108}$ ft $\frac{11}{108}$ in

b)
$$18 \text{ ft} = 2 \text{ in}$$

$$1yd = 3ft$$

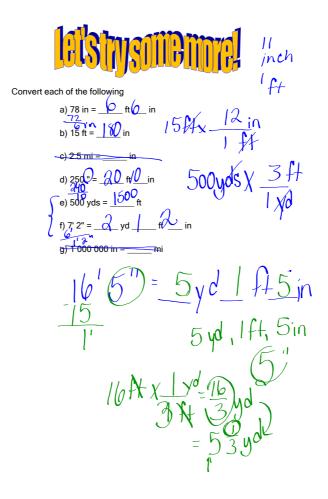
c) 32 in =
$$\frac{2.8}{100}$$
 ft

1mi = 1760yd



Convert each of the following:

a) 112 in = ____ ft ____ in



Convert to Inche	s.
272	

- 1) 6 feet $8\frac{1}{2}$ inches $80\frac{1}{2}$ in 644×12 in = 122) 6 feet $2\frac{1}{2}$ inches $60\frac{1}{2}$ in $(210)^{12}$

- 5) 6 feet $4\frac{7}{8}$ inches

Convert to Feet and Inches.

- 4) $62\frac{3}{8}$ inch
- $69\frac{3}{4}$ inch

Let's try some new ones...

307400 yd to mi

307400 yd
$$\times$$

Ini

307400 yd \times

Ini

43600 ft to mi

43600 ft to mi

43600 ft to mi

43600 ft \times

1 yd \times

1 yd \times

1 mi

43600 ft \times

1 yd \times

1 yd \times

1 mi

7 mi to in

7 mi to in

1 mi

1

Class/ Homework

Finish yesterday's sheet

6-10 on top and bottom section # 1, 2, 3, 5, 6, 8, 9 on the back # 1, 2, 4, 6, 7, 9, 11, 13, 14, 16 on general conversion sheet



Worksheet: Converting Imperial Lengths

(all questions)
And a
Feet to Inches worksheet
Inchto feet

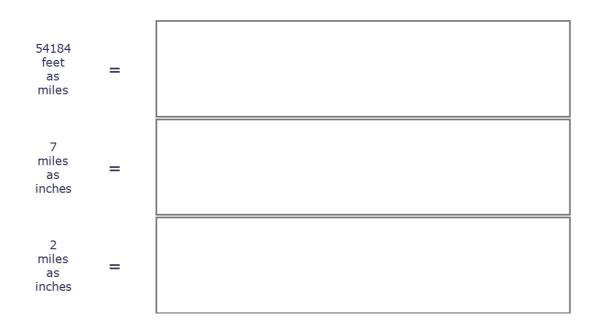
1ft = 12in 1yd = 3ft 1mi = 1760yd

GMF 10 - Imperial Unit Conversion

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9 miles as inches	=	
17 miles as feet	=	



824435 inches as miles	=	
443680 inches as miles	=	
717897 inches as miles	=	

12. 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.

1ft = 12in
1yd = 3ft
1yd 9 in.

1.1 Imperial Measures of Length

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?

$$1ft = 12in$$

 $1yd = 3ft$

1mi = 1760yd

b) The framing material is sold by the foot. It costs \$1.89/ft.

What will be the cost of material before taxes? 13binx_

* Perimeter - distance around the figure



1.1 Imperial Measures of Length

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CHECK YOUR UNDERSTANDING



1.1 Imperial Measures of Length



Solving a Problem Involving Converting between Units

Anne is framing a picture.

The perimeter of the framed picture will be 136 in.

b) The framing material is sold by the foot. It cost \$1.89/ft.

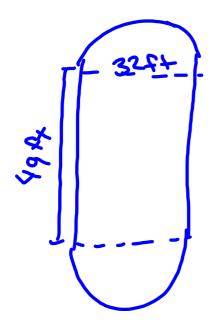
What will be the cost of material before taxes?

1.1 Imperial Measures of Length

Ben buys baseboard for a bedroom. The perimeter of the bedroom, excluding closets and doorway, is 37 ft.

a) What length of baseboard is needed, in yards and feet?

b) The baseboard material is sold by the yard. It costs \$5.99/yd. What is the cost of material before taxes?



Class/ Homework

Textbook Handout

1ft = 12in

p. 150: #1 to 6 and 8

1yd = 3ft 1mi = 1760yd Worksheet - Converting Measurements.docx

Worksheet - Converting Imperial Lengths.docx

Worksheet2_ Inches to feet.pdf