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 ft = 12 in

1 yd = 3 ft

1 mi = 1760 ft







Convert each of the following:

c)
$$3.2 \text{ mi} = \frac{202752}{1760 \times 3 \times 12}$$

Do "Ruler Quiz" sheet as well.

Convert each of the following:



Convert each of the following

c) 2.5 mi =
$$1584^{60}$$
 in $2.5 \times 1760 \times 3 \times 12$

g) 1 000 000 in = 15.8 mi $\div 12$ $\div 3$ $\div 1760$

Factor Label Method



Watch this video for the method



Worksheet: Converting Imperial Lengths

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

9 miles tours

9mi x 1760 yd x 3fb x 12(in) =

GMF 10 - Imperial Unit Conversion

Name:	
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INSTRUCTIONS: Solve the unit conversion problem by cross cancelling units.

		•	•	_
9 miles as inches	=			
17 miles as feet	=			

54184 feet as miles	=	
7 miles as inches	=	
2 miles as inches	=	

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

TRY THIS ONE...

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.



Example 2

Solving a Problem Involving Converting between Units

Anne is framing a picture.

The perimeter of the framed picture will be 136 in.

$$1ft = 12in$$

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?

* Perimeter - distance around the figure



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 = 12in1yd = 3ft1mi = 1760yd



CHECK YOUR UNDERSTANDING C



Example 2

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 costs \$1.89/ft. What will be the cost of material before taxes?



CHECK YOUR UNDERSTANDING (*)



- 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?



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

Class/Homework

Textbook Handout

1ft = 12in1yd = 3ft 1mi = 1760yd

p. 150: #1 to 6 and 8

Worksheet - Converting Measurements.docx

Worksheet - Converting Imperial Lengths.docx

Worksheet2_ Inches to feet.pdf