

Worksheet: Converting Imperial Lengths

(all questions)
And a

Feet to Inches worksheet
Inchto feet

Jan 25-8:45 PM

rvarrie .	Score:	
Teacher:		
Co	nverting Feet and Inches	
4		
Convert to Inches.		
1) 6 feet $8\frac{1}{2}$ inches	$80 \frac{1}{2}$ 6) 7 feet $8\frac{5}{8}$ inches	925"
2) 5 feet $2\frac{1}{2}$ inches	$\frac{62 \frac{1}{2}}{1} = 7$ ) 1 feet $3\frac{1}{2}$ inches	15 ½ "
3) 3 feet $11\frac{3}{8}$ inches	$47 \frac{3}{8}$ 8) 5 feet $8\frac{3}{8}$ inches	68 3% "
4) 2 feet 11 7/8 inches	$\frac{35}{16}$ $\frac{3}{16}$ $\frac{3}{16}$ inches	50%"
5) 6 feet $4\frac{7}{8}$ inches	$\frac{76 \frac{7}{8}}{10}$ 10) 9 feet $1\frac{1}{2}$ inch	109 1/2"

Convert to Feet and Inches.

$$69\frac{1}{2}$$
 inch

1) 
$$5' 9 \frac{1}{2}$$
 69  $\frac{1}{2}$  inch 6)  $9' \frac{1}{4}$  109  $\frac{1}{4}$  inch

2) 
$$\frac{7'}{1}$$
  $\frac{1}{8}$  85  $\frac{3}{8}$  inch 7)  $\frac{2'}{8}$   $\frac{8}{4}$   $\frac{1}{4}$  inch

$$85\frac{3}{8}$$
 inch

$$32\frac{1}{4}$$
 inch

$$74\frac{7}{8}$$
 inch

$$59\frac{1}{2}$$
 inch

$$62\frac{3}{8}$$
 inch

3) 
$$\frac{6}{3}\frac{3}{8}$$
 74  $\frac{7}{8}$  inch 8)  $\frac{4}{1}\frac{1}{2}$  59  $\frac{1}{2}$  inch 4)  $\frac{5}{2}\frac{3}{8}$  62  $\frac{3}{8}$  inch 9)  $\frac{5}{8}\frac{3}{2}$  68  $\frac{1}{2}$  inch 5)  $\frac{5}{9}\frac{3}{4}$  inch 10)  $\frac{3}{8}\frac{5}{16}$  44  $\frac{5}{16}$  inch

$$68\frac{1}{2}$$
 inch

$$69\frac{3}{4}$$
 inch

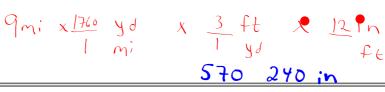
Sep 7-12:42 PM

GMF	<b>10</b> -	<b>Imperial</b>	Unit	Conversi	on
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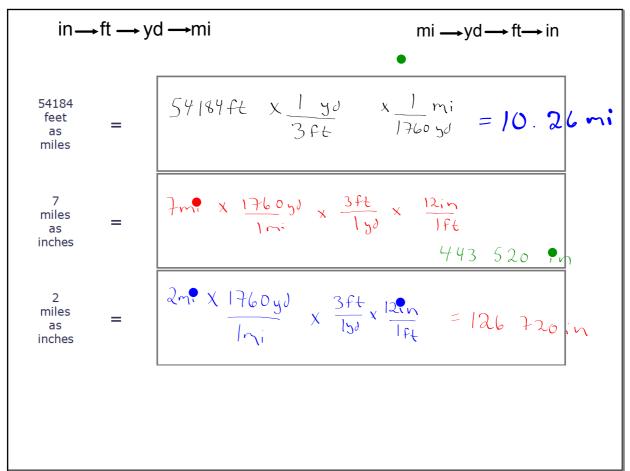
Name:

$$mi \longrightarrow yd \longrightarrow ft \longrightarrow in$$

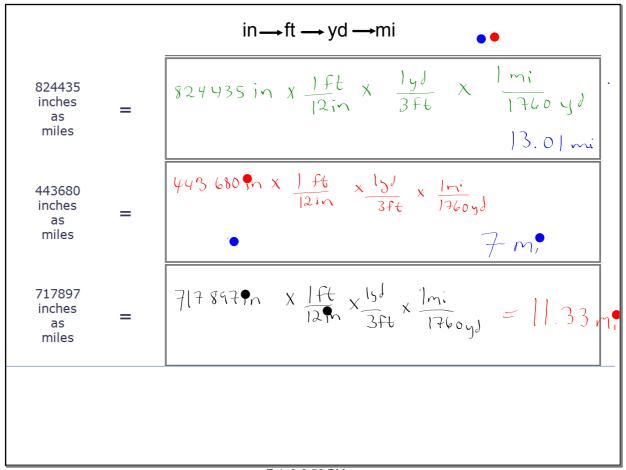
INSTRUCTIONS: Solve the unit conversion problem by cross cancelling units.



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Page 150 Questions 1,2,3,4,5,6 and 8

- Convert the following measurements.
  - a) Convert 3520 yd to miles.
  - b) Convert  $10'\frac{3}{16}''$  to inches. 120  $\frac{3}{16}$  in
  - c) Convert  $8\frac{3}{4}$  yards to feet.

264 ft

2 mi

26ft 3%

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- Choose the correct item to go with each linear measurement. Explain why you chose your answer.
  - a) About 1 mm:

thekness

- i) length of a movie ticket ii) with of a fingernail iii) diameter of a quarter
- b) About 1 yd:
- i) length of a pen

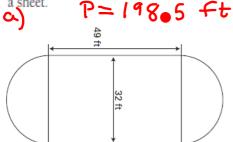
ii) height of a chair

iii) length of a station wagon

3. What referent could you use to represent a metre? A foot? Compare your SI referent to your imperial referent. Which is larger? How many of the smaller referent are equal to one of your larger referent?

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4. You have decided to build a small hockey rink in your backyard, as shown in the diagram. You want to use plywood to build rink boards that are 48" high. Exterior ½" plywood is sold in 4' × 8' sheets that cost \$14.15 a sheet.

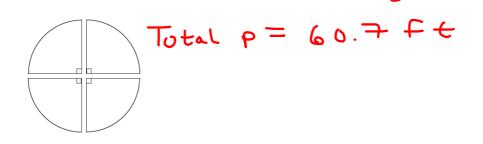


- a) How many sheets of plywood will you need to surround the rink?
- b) What will be the cost of the plywood, before taxes?

\$353.75

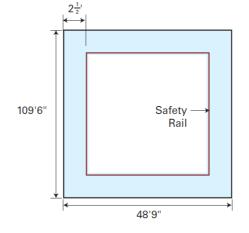
 $C = 2\pi r$ 

5. A landscape gardener has designed a circular herb garden with 4 sectors, shown on the right. The radius of one sector is 4'3". Each sector will be surrounded with plastic lawn edging that costs \$9.99 for a 20' roll. How much will it cost to put edging around the herb garden? Assume that you cannot buy partial rolls.



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6. In professional theatres, there is a catwalk called a fly gallery that runs along the four walls above the stage. Stagehands stand on the fly gallery to raise and lower scenery on and off stage. A structural steel fitter has been asked to replace the inside safety rail of a fly gallery. The space above the stage is 109'6'' long and 48'9'' wide. The fly gallery is  $2\frac{1}{2}'$  wide. If the fitter uses rails that are 20 feet long, how many rails will she need?



296'6

15 rails

8. A finishing carpenter is working on a partial home renovation project, and the homeowner has asked the carpenter how much it would cost to replace the baseboards in the bathroom. The floor plan of the bathroom is shown on the right. The carpenter bills his time at a rate of \$45.00/h and he charges a marking en materials. Baseboard costs \$6.50 a linear foot 36" 30" and the carpenter estimates it will take him two-anda-half hours. How much does he tell the homeowner it will cost? List any assumptions you made in your calculations. 66" Without 52 36.°° 18" markup \$257.53

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Worksheet2\_ Inches to feet.pdf