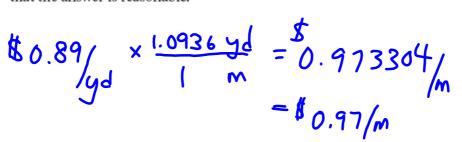
TRY THIS ONE...

A retail fabric store advertises a storewide sale. It lists a certain material for \$0.89/yd. A fabric warehouse is selling the same material for \$0.93/m.



- a) Which store has the better price?
- b) Use mental math and estimation to justify that the answer is reasonable.



Wanhouse is cheapen by \$0.04/m

1.3 Relating SI and Imperial Units

LAND AREAS...

The imperial unit to measure an area of land is the acre. During the initial agricultural expansion of the western provinces, the Canadian government offered 160 acres of land free to settlers who were willing to immigrate to Canada. Today, Canada uses the *hectare* to measure land area:





1 hectare \doteq 2.471 acres

- a) How many hectares did each settler receive?
 - b) One hundred sixty acres is a square with a side length of one-half a mile. How many hectares are in one square mile?

18. a) Approximately 65 hectares

b) Approximately 259 hectares

1.3 Relating SI and Imperial Units

1 hectares = 64,75 hectares
64.75 x 4 hostares = 259 hectares in a
Square mile

2

CHECK YOUR UNDERSTANDING

1. A Canadian football field is approximately 59 m wide.
What is this measurement to the nearest foot?





$$59m \times \frac{1.0936 \text{ pd}}{1.0936 \text{ pd}} \times \frac{3 \text{ ff}}{3 \text{ ff}} = 194$$



1.3 Relating SI and Imperial Units

CHECK YOUR UNDERSTANDING

- 3. Nora knows that she is 5 ft. 7 in. tall.
 - a) What height in centimetres will she list on her driver's license application?
 - b) Use mental math and estimation to justify that the answer is reasonable.

Change to inches
$$5'7'' = 67''$$

$$67'' \times \frac{2.54 \text{ cm}}{1 \text{ in}} = 170.18 \text{ cm}$$



[Answer: a) 168 cm]



1.3 Relating SI and Imperial Units

Glass/Homework

Worksheet Section 4.2 Conversion

Worksheet - Converting Measurements.docx