

SECTION 1.3: RELATING SI AND IMPERIAL UNITS

SI Unit to Imperial Unit	Imperial Unit
$1 \text{ mm} \doteq .04 \text{ in. (4/100)}$	$1 \text{ in.} = 2.5 \text{ cm}$
$1 \text{ cm} \doteq .4 \text{ in. (4/10)}$	$1 \text{ ft.} = 30 \text{ cm} = .3\text{m}$
$1 \text{ m} \doteq 39 \text{ in.} = 3\text{ft. } 3\text{in.} = 3.25 \text{ ft.}$	$1 \text{ yd.} = 90 \text{ cm} = .9 \text{ m}$
$1\text{km} = .6 \text{ mi. (6/10)}$	$1 \text{ mi.} = 1.6 \text{ km}$

Examples

1. Make these conversions from Imperial to SI (metric) units.
 - A) 27 in. to cm
 - B) 7 ft. to cm
 - C) 79 yd. to m
 - D) 79 yd. to m
 - E) 3910 yd. to m
 - F) 280 mi. to km
 - G) 87 in. to mm

2. Make these conversions from SI units to Imperial units.
 - A) 128 in. to cm
 - B) 15 m to ft
 - C) 95 km to mi.
 - D) 285 km to mi.

3. A bowling lane is approximately 21m long. What is the measurement to the nearest foot?

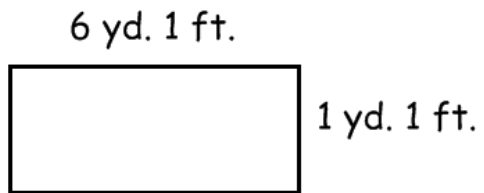
4. Nora knows that she is 5ft. 7in. tall.
 - a) What height in centimeters will she list on her driver's license application?

 - b) Check your solution

5. A truck driver knows that her trailer is 3.8 m high. The support beams of a bridge are 11 ft. 9 in. high. Will the vehicle fit under the bridge?

6. Two cars left Goose Bay. One drove 80 miles the other 132 km. Who drove further?

7. Calculate the cost to fence the yard shown below if the fence material costs \$4.85 per metre.



8.