

Mathematics 10
1.1-1.3 Assignment

Name: _____
Block: _____

1. Which imperial unit would you use to measure each of the following?

- a) the length of a pen _____
- b) the height of a doorway _____
- c) the length of a classroom _____
- d) the distance from Vancouver to Seattle _____

2. Which SI unit would you use to measure each of the following lengths.

- a) the width of a diamond earring _____
- b) the length of a pencil _____
- c) the perimeter of a classroom _____
- d) the distance from Burnaby to Whistler _____

3. Complete each of the following conversions within the imperial system. Show your work using a conversion factor.

a) 6 ft. = _____ in. b) 4 ft. 2 in. = _____ in.

c) 65 in. = _____ ft. _____ in. d) 18 yd. = _____ ft.

e) 25 ft. = _____ yd. _____ ft. f) 3 mi. = _____ yd.

4. Complete each of the following conversions within the SI system. Show your work using a conversion factor.

a) 35 mm = _____ cm b) 15 m = _____ cm

c) $15 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

d) $3.2 \text{ km} = \underline{\hspace{2cm}} \text{ cm}$

e) $35\,000 \text{ m} = \underline{\hspace{2cm}} \text{ km}$

f) $900 \text{ mm} = \underline{\hspace{2cm}} \text{ km}$

5. Complete each of the following conversions between the Imperial and SI systems. Show your work using a conversion factor. Round to 1 decimal place where appropriate.

a) $5 \text{ in.} = \underline{\hspace{2cm}} \text{ cm}$

b) $15 \text{ cm} = \underline{\hspace{2cm}} \text{ in.}$

c) $18 \text{ yd.} = \underline{\hspace{2cm}} \text{ m}$

d) $40 \text{ m} = \underline{\hspace{2cm}} \text{ yd.}$

e) $3 \text{ mi.} = \underline{\hspace{2cm}} \text{ km}$

f) $5 \text{ km} = \underline{\hspace{2cm}} \text{ mi.}$

g) $5 \text{ mi.} = \underline{\hspace{2cm}} \text{ m}$

h) $6 \text{ km} = \underline{\hspace{2cm}} \text{ ft.}$

6. Bob ran a 10 mile race in Washington State. That same weekend, his friend Jenny ran the Victoria half marathon, which is a 21 km long. Who ran further and by how much? Answer in kilometres.