

Name: \_\_\_\_\_ Block: \_\_\_ Date: \_\_\_\_\_

Mrs. van der Vossen      Math

## 3.2 Worksheet - Converting Measurements

Solve the following. Circle your answers. INCLUDE UNITS.

1. Convert 120 yards into meters.
  
2. Convert 34 feet into meters.
  
3. Convert 15cm into inches.
  
4. Convert 1945 kilometers into miles.
  
5. Convert 88 meters into feet.
  
6. Your yard measures 45 ft by 75 ft. What is the area in  $m^2$ ?
  
7. Your yard measures 400 ft by 284 ft. What is the area in  $yds^2$ ?
  
8. A local craft store sells ribbon for \$1.37/m. The pattern for Marnie's Halloween costume requires 4 feet of ribbon. How much will it cost Marnie to buy the ribbon?

9. You decide to visit a friend in California. She tells you that she lives 1300 miles away. Your odometer tells you that you have already travelled 800 km. How much further do you have to go in kilometres? Round to the nearest kilometre.
10. Charlie drove for 3 hours at 80 km/h.
- How far did he travel in kilometres?
  - How far did he travel in miles? Calculate the distance to the nearest mile.

**Show your work. Choose the best answer.**

11. How many centimetres are there in 5 inches?
- 1.97 cm
  - 7.54 cm
  - 10.16 cm
  - 12.7 cm
12. How many kilometres are in 19 miles? Round to 1 decimal place.
- 11.8 km
  - 30.4 km
  - 20.6 km
  - 17.4 km
13. Tessa measures her bathroom tiles to be 10 inches by 8 inches. What are the length and width in centimetres?
- 35.4 cm by 12.32 cm
  - 25.4 cm by 20.32 cm
  - 25.4 cm by 24.5 cm
  - 20.32 cm by 19.6 cm
14. The driving distance from Yellowknife, NWT, to Whitehorse, YT, is 2704 km. What is this distance in miles?
- 1352 miles
  - 1690 miles
  - 4326 miles
  - 901 miles
15. How many metres are in 940 yards?
- 940.9 m
  - 0.846 m
  - 1044 m
  - 846 m

16. Flowers will be planted every 6 inches along the perimeter of the garden pictured below. Approximately how many planters of flowers will be needed?



- a. 15
- b. 45
- c. 90
- d. 180

**Problem**

17. Your kitchen measures 4 m by 3 m. You would like to install tiles that are 10" by 10".

- a) Calculate the length and width of the tiles in centimetres.
- b) Calculate the area of each tile in  $\text{cm}^2$ .
- c) Find how many tiles you need to cover the kitchen floor.
- d) If the tiles come in packages of 23 that cost \$23.49 each, how much will it cost to tile the floor?