MEASUREMENT 4

1. A wall measures 11.5 m × 2.8 m.

    a. Find the area.   _____

    b. If 1 litre of paint covers 12 m^2 how many litres of

       paint are needed to double-coat this wall?   _____

2. A rectangular tank measures 80 cm × 120 cm × 50 cm.

    a. Find the volume.   _____

    b. How much water will it hold in litres?   _____

3. A freezer compartment measures 1.1 m × 0.3 m × 0.6 m. (2 marks)

    a. Find the volume.   _____

    b. How many one-litre bricks of ice cream will it hold?   _____

4. An old atlas states that Canada is about 3.85 million square miles in area. What is the area of
    Canada in km^2?

                                                                 _____

5. A roast has a mass of 1.8 kg. The cookbook says to cook it 30 minutes per pound. How long should the roast be cooked? _____ hrs _____ min

6. The 6-mile race is very similar to the metric 10 000 metre race. Which race is longer and by how many metres? _____ m

7. On the basketball program, Olga's height is listed as being 190.5 cm. How tall is she in feet and inches? _____

8. The conversion for km per litre to miles per gallon is:

   1 km/L = 2.82 mi/gal

   If Therese's truck only gets 4 km/L, how many miles per gallon is this? _____

ANSWER KEY

1. a. 32.2 m²   b. 5.4 L or 6 L

2. a. 480 000 cm³   b. 480 L

3. a. 0.198 m³ ≈ 198 000 cm³   b. 198

4. 9 979 585 km² or 10 million km²

5. 1 hour 58.8 min

6. The 10 000 m race by 340 m.

7. 6 feet 3 inches

8. 11.28 mi/gal

Source: Government of BC used with permission.

Bow Valley College