

*Name:* \_\_\_\_\_

1. Using the abbreviations shown complete the three formulae relating speed, distance travelled and time taken.

$s$  = speed  
 $d$  = distance travelled  
 $t$  = time taken

$s$  =       $d$  =       $t$  =

2. (a) A cyclist rides 50 km in 2 hours.  
 What is the average speed?

(b) A jogger runs at a speed of 200 metres per minute (m/min) for 20 minutes. How far has he/she jogged?

(c) A skier completes a 500 m ski run travelling at a speed of 20 m/s.  
 How long did this take?

(d) Jodie jogged at a speed of 3 m/s for 30 minutes. How far did she jog?

(e) Harry competed in a 12 km fun-run. It took him 50 minutes to complete.  
 At what speed (m/s) was Harry running?

2. After a severe storm bananas cost \$12 per kg. There were 4 bananas per kg.  
 (a) Find the cost of one banana.

(b) Find the cost of buying 4 kg of bananas.

3. Sonia's favourite licorice cost 80 cents for 100 g.  
 (a) Find the cost of the following amounts of licorice.

(i) 300 g     (ii) 2 kg     (iii) 3.5 kg

        

(b) Find how many grams of licorice could be bought for the following amounts of money.

(i) \$4     (ii) \$10     (iii) \$15

        

4. Water purifying tablets can be added to unclean water to make it safer to drink. If four tablets have to be added to every litre of water, how many tablets would need to be added to the following amounts of water?

(a) 4 L     (b) 2.5 L     (c) 500 mL

        

5. Crystal's car can travel 12 km per litre of petrol.

(a) How many litres would be used in travelling the following distances?  
 (i) 60 km     (ii) 186 km     (iii) 300 km

        

(b) How many km could she travel on the following amounts of petrol?  
 (i) 7 L     (ii) 10.5 L     (iii) 26 L

        

(c) Use the current price of petrol to calculate how much it would cost Crystal to travel 300 km.