

Wednesday 26 August 2026

1. Fill in the blanks with the correct word or formula.

- (a) A rate links two different _____.
- (b) The formula for speed is $S =$ _____.
- (c) To find distance, the formula is $D =$ _____.
- (d) To find time, the formula is $T =$ _____.
- (e) Speed can be measured in _____ per hour or metres per _____.

2. Write **TRUE** or **FALSE** for each statement.

- (a) km/h means kilometres per hour. _____
- (b) m/s means miles per second. _____
- (c) Speed is a type of rate. _____
- (d) To find speed, you multiply distance by time. _____

3. Explain in your own words what it means when a car travels at a speed of **60 km/h**.

4. A kombi travels from Harare to Bulawayo, a distance of **450 km**, in **5 hours**.

(a) Write the formula for speed.

Answer: $S =$ _____

(b) Calculate the speed of the kombi.

Answer: _____ km/h

(c) Show your working below.

5. Calculate the following:

(a) A cyclist travels **36 km** in **2 hours**. What is the cyclist's speed?

Answer: _____ km/h

(b) A runner covers **100 m** in **10 seconds**. What is the runner's speed in m/s?

Answer: _____ m/s

(c) A car travels at **80 km/h** for **3 hours**. How far does it travel?

Answer: _____ km

(d) A bus travels **240 km** at a speed of **60 km/h**. How long does it take?

Answer: _____ hours

6. Mai Rudo buys **5 kg** of sugar for **\$10** at a shop in Mutare.

(a) What is the price rate per kilogramme?

Answer: \$ _____ /kg

(b) How much would **8 kg** of sugar cost at the same rate?

Answer: \$ _____

(c) Show your working for part (b).

7. A water tank fills at a rate of **25 litres per minute**.

(a) How much water fills the tank in **4 minutes**?

Answer: _____ litres

(b) How long will it take to fill **500 litres**?

Answer: _____ minutes

(c) Show your working for part (b).

8. A car and a bus travel from Gweru to Masvingo, a distance of **180 km**.

- The car takes **2 hours**.
- The bus takes **3 hours**.

(a) Calculate the speed of the car.

Answer: _____ km/h

(b) Calculate the speed of the bus.

Answer: _____ km/h

(c) Which vehicle is faster? By how many km/h?

Answer: The _____ is faster by _____ km/h.

(d) Show your working for part (c).

9. Two taxis are travelling from Bulawayo to Victoria Falls, a distance of **440 km**.

- **Taxi A** travels at a speed of **110 km/h**.
- **Taxi B** travels at a speed of **80 km/h**.

(a) Calculate the time taken by Taxi A.

Answer: _____ hours

(b) Calculate the time taken by Taxi B.

Answer: _____ hours

(c) Which taxi arrives first? Justify your answer.

10. Design a simple problem about rate that involves a bus travelling between two towns in Zimbabwe. Write the problem and then solve it.

Your problem:

Solution: