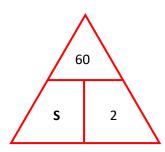


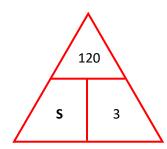
1. A car travels 60 miles in 2 hours. Find the average speed of the car.



$$Speed: 60 \div 2 = 30mph$$

(2 marks)

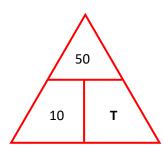
2. A truck drives 120 km in 3 hours. Find the average speed of the car.



$$Speed: 120 \div 3 = 40km/h$$

(2 marks)

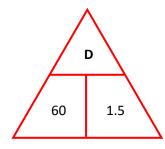
3. A bike travels 50 miles at a speed of 10mph. How long did the journey take?



$$Time: 50 \div 10 = 5 \ hours$$

(2 marks)

4. A motorbike travels at 60km/h for 1.5 hours. What is the total distance the motorbike travels?

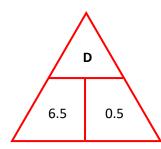


Distance:
$$60 \times 1.5 = 90 \text{ km}$$

(2 marks)



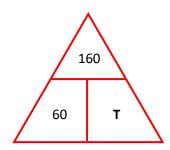
5. Spencer runs for 30 minutes at 6.5*mph*. How far does spencer run?



30 MINUTES = 0.5 HOURSDistance: $6.5 \times 0.5 = 3.25 miles$

(2 marks)

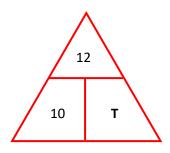
6. Aria is travelling for 160 miles at 60*mph*. How long does it take to complete her journey?



Time: $160 \div 60 = 2.666 \dots$ 2 hours and 40 minutes

(2 marks)

7. Hannah leaves her house at 7: 30*am* to cycle to work. Her work is 12 miles away from her home. She cycles at 10*mph*. What time will Hannah get to work?



Time: $12 \div 10 = 1.2 \text{ hours}$ 1 hour 12 minutes8:42am

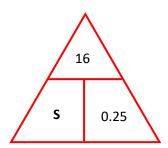


8. The speed limit on a road is 60mph.

Mia is travelling 16 miles for 15 minutes.

Is Mia breaking the speed limit?

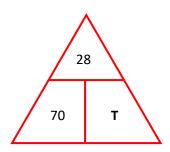
You must show all of your workings.



15 minutes = 0.25 hour $Speed: 16 \div 0.25 = 64mph$ Yes she is

(3 marks)

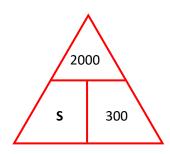
9. Jacob travels 28km at a speed of 70km/h. How long does it take Jacob? Give your answer in minutes.



Time: $28 \div 70 = 0.4$ *24 minutes*

(3 marks)

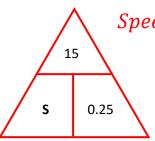
10. Luke runs 2*km* in 5 minutes. What is Luke's speed in metres per second?



2km = 2000 m5 minutes = 300 seconds $Speed: 2000 \div 300 = 6.67m/s$



Jackson travelled from A to B.
A and B are 15 miles apart.
It takes Jackson 15 minutes to travel from A to B.
Sophie also travels from A to B.
She travels 62mph.
Who travels the quickest?
You must show all of your workings.



Speed of Jackson: $15 \div 0.25 = 60mph$

Sophie travels the quickest

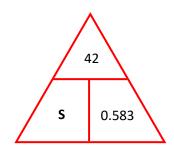
(3 marks)

12. Car A is travelling 51*mph*.
Car B is travelling 80*km/h*.
Which car is travelling the fastest?
Show all of your workings.

1 mile = 1.6 km80km/h=50mphCar A is travelling the fastest



13. The speed limit on a certain road is 70*mph*. A lorry is travelling 42 miles in 35 minutes. Is the lorry breaking the speed limit? Show all your workings.



 $35 \ minutes = 0.58333 \dots hour$ $Speed: 42 \div 0.58333 = 72mph$ $Yes \ it \ is$

(3 marks)

14. Convert 8km/h into m/s

8000m/h8000m/3600s $2.\dot{2}m/s$

(2 marks)

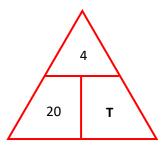
15. Convert 108km/h into m/s

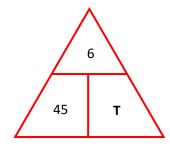
108000m/h 108000m/3600s30m/s

(2 marks)



16. Simon is travelling from home to visit his friend. He completes the journey in 2 stages. In stage 1, he travels 4 *miles* at 20*mph*. In stage 2, he travels 6 *miles* at 45*mph*. Simon leaves his house at 9:30am, what time does he get to his friend's house?

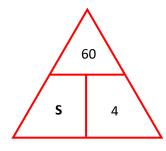




Stage 1 time: $4 \div 20 = 0.2$ (12 minutes) Stage 2 time: $6 \div 45 = 0.1\dot{3}$ (8 minutes) 9: 50am

(4 marks)

17. A cat runs 63 metres in 3.98 seconds Estimate the cats average speed?



$$63 \approx 60 \ (1sf)$$

 $3.98 \approx 4 \ (1sf)$
 $Speed: 60 \div 4 = 15m/s$