GCSE Exam Questions

Speed Distance Time | Ratio & Proportion

THIRD SPACE
LEARNING

GCSE Exam Questions: Speed Distance Time

1) **(a)** Michelle leaves her house at 07:00.

She drives 93 miles to work at an average speed of 36 miles per hour.

How long does her journey take in minutes?

_____

(2)

(b) What time does she arrive at work?

_____

(1)

(3 marks)

2) **(a)** A jet plane flies 1500km in a time of 2 hours 45 minutes.

What is the average speed of the plane in km/h?

Give your answer to the nearest km/h.

_____

(3)

(b) Convert your answer to part (a) to m per minute.

Give your answer to the nearest m/min.

_____

(2)

(5 marks)

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

1

GCSE Exam Questions: Speed Distance Time

3) The speed limit on a road is 60 miles per hour.

A car drives 21 miles in 24 minutes.

Show that the car was travelling within the speed limit?

(3 marks)

4) Convert 6*km*/*h* into *m*/*s*. Give you answer to 3*sf*.

(3 marks)

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

2

THIRD SPACE
LEARNING

GCSE Exam Questions: Speed Distance Time Answers

|	Question	Answer	Marks
1) (a)	Michelle leaves her house at 07:00. She drives 93 miles to work at an average speed of 36 miles per hour. How long does her journey take in minutes?	**(a)** $93 \div 36$ $\dfrac{31}{12}$ hours or 2 hours 35 minutes 155 minutes	**(1)** **(1)**
(b)	What time does she arrive at work?	**(b)** 09:35	**(1)**
2) (a)	A jet plane flies 1500km in a time of 2 hours 45 minutes. What is the average speed of the plane in km/h? Give your answer to the nearest km/h.	**(a)** 2.75 hours seen $1500 \div 2.75$ 545 km/h	**(1)** **(1)** **(1)**
(b)	Convert your answer to part (a) to m per minute. Give your answer to the nearest m/min.	**(b)** Alternative methods allowed "545" $\times$ 1000 $\div$ 60 9083 m/min	**(1)** **(1)**
3)	The speed limit on a road is 60 miles per hour. A car drives 21 miles in 24 minutes. Show that the car was travelling within the speed limit?	**Yes with working** 24 minutes = 0.4 hours $21 \div 0.4$ 52.5 mph	**(1)** **(1)** **(1)**
4)	Convert 6km/h into m/s. Give you answer to 3sf.	Either seen: $6km = 6000m$ 1 hour = 60 minutes = 3600 seconds $6000 \div 3600$ 1.67 m/s	**(1)** **(1)** **(1)**

thirdspacelearning.com   Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

3

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

Scan the QR code to discover our library of FREE GCSE maths revision resources

Do you have KS4 students who need additional support in maths?
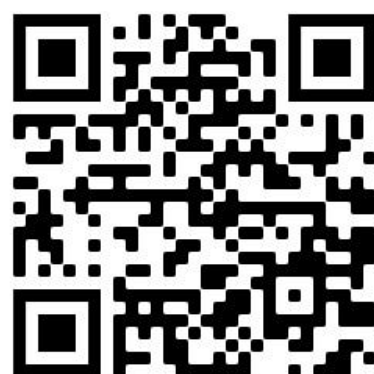
Our specialist tutors will help students to develop the skills they need to succeed at GCSE in weekly one to one online revision lessons. Trusted by secondary schools across the UK.

Visit thirdspacelearning.com to find out more.

THIRD SPACE
LEARNING