



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Compound Measures · Practice Booklet

NAME: _____

CLASS: _____

DATE: _____

☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Compound Measures

Total marks available: 70

● Compound Measures

Q1

[2 marks]

A car travels 180 km in 4 hours. Find its average speed in km/h.

Q2

[2 marks]

A car travels 375 km in 5 hours. Find its average speed in km/h.

Q3

[2 marks]

A block has mass 28g and volume 4cm^3 . Find its density in g/cm^3 .

Q4

[2 marks]

A block has mass 42g and volume 14cm^3 . Find its density in g/cm^3 .

Q5

[2 marks]

A block has mass 15g and volume 5cm^3 . Find its density in g/cm^3 .

Q6

[2 marks]

A block has mass 121g and volume 11cm^3 . Find its density in g/cm^3 .

Q7

[2 marks]

A block has mass 27g and volume 9cm^3 . Find its density in g/cm^3 .

Q8

[2 marks]

A car travels 140 km in 2 hours. Find its average speed in km/h .

Q9

[2 marks]

A car travels 180 km in 3 hours. Find its average speed in km/h.

Q10

[2 marks]

A car travels 130 km in 2 hours. Find its average speed in km/h.

Q11

[2 marks]

A cyclist travels 20 km at an average speed of 10 km/h. Find how long the journey takes.

Q12

[2 marks]

A train travels at an average speed of 80 km/h for 1 hour. Find the distance travelled.

Q13

[2 marks]

A cyclist travels 38 km at an average speed of 19 km/h. Find how long the journey takes.

Q14

[2 marks]

A train travels at an average speed of 100 km/h for 1 hour. Find the distance travelled.

Q15

[2 marks]

A cyclist travels 34 km at an average speed of 17 km/h. Find how long the journey takes.

Q16

[2 marks]

A cyclist travels 36 km at an average speed of 18 km/h. Find how long the journey takes.

Q17

[2 marks]

A cyclist travels 22 km at an average speed of 11 km/h. Find how long the journey takes.

Q18

[2 marks]

A cyclist travels 60 km at an average speed of 15 km/h. Find how long the journey takes.

Q19

[2 marks]

A train travels at an average speed of 140 km/h for 1 hour. Find the distance travelled.

Q20

[2 marks]

A cyclist travels 80 km at an average speed of 20 km/h. Find how long the journey takes.

Q21

[3 marks]

A metal has density 13 g/cm^3 and mass 130g . Find its volume.

Q22

[3 marks]

A train travels at 32 m/s . Find this speed in km/h .

Q23

[3 marks]

A cyclist travels at 11 m/s. Find this speed in km/h.

Q24

[3 marks]

A metal has density 11 g/cm^3 and volume 18cm^3 . Find its mass.

Q25

[3 marks]

A metal has density 12 g/cm^3 and volume 7 cm^3 . Find its mass.

Q26

[3 marks]

A car travels at 20 m/s . Find this speed in km/h .

Q27

[3 marks]

A train travels at 28 m/s. Find this speed in km/h.

Q28

[3 marks]

A metal has density 15 g/cm^3 and mass 345g. Find its volume.

Q29

[3 marks]

A cyclist travels at 12 m/s. Find this speed in km/h.

Q30

[3 marks]

A car travels at 11 m/s. Find this speed in km/h.