



Name _____

Date _____

GCSE Mathematics

F/H

Compound Measures

Grades 5-7

Total Marks	Time	Questions
52	52 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions**Q1**

Grade 5

Edexcel style

A car travels 150 km in 3 hours. Find its average speed.

Answer

teachably

[2 marks]**Q2**

Grade 5

Edexcel style

A metal block has a mass of 540 g and a volume of 60 cm³. Find its density.

Answer

teachably

[2 marks]**Q3**

Grade 6

Edexcel style

A car travels at 25 m/s. Convert this speed to km/h.

Answer

teachably

[3 marks]

Q4

Grade 6

Edexcel style

A force of 200 N acts on an area of 4 m^2 . Find the pressure.

Answer _____

teachably

[2 marks]**Q5**

Grade 7

Edexcel style

A cyclist travels 20 km at a speed of 16 km/h, then a further 15 km at a speed of 10 km/h. Find the total time taken for the journey, in hours.

Answer _____

teachably

[4 marks]

AQA-style questions**Q6**

Grade 5

AQA style

A cyclist travels at an average speed of 12 mph for 2.5 hours. Find the distance travelled.

Answer

teachably

[2 marks]**Q7**

Grade 5

AQA style

A liquid has a density of 1.2 g/cm^3 . Find the mass of 50 cm^3 of the liquid.

Answer

teachably

[2 marks]**Q8**

Grade 6

AQA style

A cyclist travels at 54 km/h. Convert this speed to m/s.

Answer

teachably

[3 marks]

Q9

Grade 6

AQA style

A pressure of 15 Pa acts over an area of 6 m². Find the force.

Answer

teachably

[2 marks]**Q10**

Grade 7

AQA style

A car travels for 3 hours at 60 km/h, then for 2 hours at 45 km/h. Find the average speed for the whole journey.

Answer

teachably

[4 marks]

OCR-style questions**Q11**

Grade 5

OCR style

A train travels 240 km at an average speed of 80 km/h. Find the time taken.

Answer

teachably

[2 marks]**Q12**

Grade 5

OCR style

An object has a mass of 336 g and a density of 8 g/cm³. Find its volume.

Answer

teachably

[2 marks]**Q13**

Grade 6

OCR style

A train travels at 40 m/s. Convert this speed to km/h.

Answer

teachably

[3 marks]

Q14

Grade 6

OCR style

A force of 360 N produces a pressure of 40 Pa. Find the area over which the force acts.

Answer

teachably

[2 marks]**Q15**

Grade 7

OCR style

A block of metal has a mass of 450 g and a volume of 50 cm³. A second block of the same metal has a volume of 80 cm³. Find the mass of the second block.

Answer

teachably

[4 marks]

Teachably-style questions**Q16**

Grade 5

Teachably style

A runner completes a 10 km race in 2 hours. Find their average speed.

Answer

teachably

[2 marks]**Q17**

Grade 5

Teachably style

A metal has a density of 2.7 g/cm^3 . Find the mass of 40 cm^3 of the metal.

Answer

teachably

[2 marks]**Q18**

Grade 6

Teachably style

A car travels at 108 km/h. Convert this speed to m/s.

Answer

teachably

[3 marks]

Q19

Grade 6

Teachably style

A force of 84 N acts on an area of 2.5 m^2 . Find the pressure.

Answer _____

teachably

[2 marks]**Q20**

Grade 7

Teachably style

A cyclist travels 24 km at a speed of 20 km/h, then returns along the same route at a speed of 15 km/h. Find the total time taken for the round trip, in hours.

Answer _____

teachably

[4 marks]**END OF PAPER****Want help from an expert maths tutor?**

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