ENGLAND GCSE MATHS AQA FOUNDATION · UNIT 8 · 10 QUESTIONS

Proportion, Rates of Change, Growth and Decay — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A passenger train travels 180 km in 2 hours. Its average speed, in km/h, is**

- **A** 360
- **B** 45
- **C** 90
- **D** 100

Understand It with Pulse | Flag a mistake

2 **A bicycle travels 100 km in 5 hours. Its average speed is**

- A 20
- B 40
- C 15
- D 25

Understand It with Pulse | Flag a mistake

3 **y is directly proportional to x and y = 12 when x = 2. Find y when x = 9.**

- A 108
- B 54
- C 60
- D 15

Understand It with Pulse | Flag a mistake

4 **A yellow school bus travels 210 km in 2.5 hours. Its average speed, in km/h, is**

- A 84
- B 42
- C 525
- D 94

Understand It with Pulse | Flag a mistake

5 **A red race car worth £20000 loses 20% of its value each year. How much is it worth after one year?**

- A £19600
- B £4000
- C £16000
- D £17000

Understand It with Pulse | Flag a mistake

6 **A passenger aeroplane travels 1600 km in 2 hours. Its average speed is**

- A 700
- B 800
- C 900
- D 1600

Understand It with Pulse | Flag a mistake

7 **Water flows into a swimming pool at 15 litres per minute. How long does it take to fill 450 litres?**

- A 60
- B 40
- C 20
- D 30

Understand It with Pulse | Flag a mistake

8 **A rocket travels 1800 km in 3 hours. Its average speed is**

A 500

B 1200

C 600

D 700

Understand It with Pulse | Flag a mistake

9 **y is inversely proportional to x and y = 6 when x = 4. Find y when x = 2.**

A 3

B 18

C 48

D 12

Understand It with Pulse | Flag a mistake

10 **A block has mass 360 g and volume 40 cm³. Its density, in g/cm³, is**

A 11

B 9

C 14400

D 180

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**5.**	C	**9.**	D
2.	A	**6.**	B	**10.**	B
3.	B	**7.**	D		
4.	A	**8.**	C		

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