ENGLAND GCSE MATHS EDEXCEL 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 **Water flows into a swimming pool at 10 litres per minute. How long does it take to fill 600 litres?**

- **A** 70
- **B** 50
- **C** 120
- **D** 60

Understand It with Pulse | Flag a mistake

2 **A yellow school bus travels 240 km in 3 hours. Its average speed, in km/h, is**

A 720

B 40

C 90

D 80

Understand It with Pulse | Flag a mistake

3 **y is inversely proportional to x and y = 30 when x = 2. Find y when x = 6.**

A 40

B 90

C 10

D 360

Understand It with Pulse | Flag a mistake

4 **A block has mass 480 g and volume 80 cm³. Its density, in g/cm³, is**

- A 6
- B 240
- C 38400
- D 8

Understand It with Pulse | Flag a mistake

5 **A bicycle travels 20 km in 2 hours. Its average speed is**

- A 15
- B 5
- C 10
- D 20

Understand It with Pulse | Flag a mistake

6 **A force of 480 N acts on an area of 4 m². The pressure, in $\frac{N}{m^2}$, is**

- A 1920
- B 240
- C 120
- D 125

Understand It with Pulse | Flag a mistake

7 **A red race car worth £20000 loses 10% of its value each year. How much is it worth after one year?**

- A £2000
- B £18000
- C £19800
- D £19000

Understand It with Pulse | Flag a mistake

8 **A passenger aeroplane travels 900 km in 3 hours. Its average speed is**

A 300

B 400

C 200

D 600

Understand It with Pulse | Flag a mistake

9 **y is directly proportional to x and y = 16 when x = 2. Find y when x = 4.**

A 64

B 32

C 12

D 40

Understand It with Pulse | Flag a mistake

10 **A rocket travels 2400 km in 2 hours. Its average speed is**

A 1100

B 1300

C 1200

D 2400

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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