Multiple choice questions - Perimeter, area and volume

Year: Year 7 · 10

Question 1 What is the area of a rectangle 9 cm by 4 cm?

- ◯ **A.** 36 cm^2
- ◯ **B.** 26 cm^2
- ◯ **C.** 36 cm
- ◯ **D.** 13 cm^2

Question 2 What is the perimeter of a rectangle 9 cm by 4 cm?

- ◯ **A.** 36 cm
- ◯ **B.** 26 cm
- ◯ **C.** 13 cm
- ◯ **D.** 26 cm^2

Question 3 What is the area of a triangle with base 8 cm and height 5 cm?

- ◯ **A.** 40 cm^2
- ◯ **B.** 13 cm^2
- ◯ **C.** 20 cm^2
- ◯ **D.** 10 cm^2

Question 4 What is the area of a parallelogram with base 7 cm and height 3 cm?

- ◯ **A.** 10 cm^2
- ◯ **B.** 10.5 cm^2
- ◯ **C.** 42 cm^2
- ◯ **D.** 21 cm^2

Question 5 What is the area of a trapezium with parallel sides 4 cm and 8 cm and height 5 cm?

- ◯ **A.** 30 cm^2
- ◯ **B.** 60 cm^2
- ◯ **C.** 17 cm^2
- ◯ **D.** 40 cm^2

Question 6 What is the volume of a cuboid 3 cm by 4 cm by 10 cm?

- ◯ **A.** 17 cm^3

- ◯ **B.** 120 cm^3
- ◯ **C.** 60 cm^3
- ◯ **D.** 120 cm^2

Question 7 How many cm^3 are in 2 litres?

- ◯ **A.** 200
- ◯ **B.** 20
- ◯ **C.** 2000
- ◯ **D.** 20 000

Question 8 A square has perimeter 20 cm. What is its area?

- ◯ **A.** 20 cm^2
- ◯ **B.** 100 cm^2
- ◯ **C.** 10 cm^2
- ◯ **D.** 25 cm^2

Question 9 Which unit is used for volume?

- ◯ **A.** cm^3
- ◯ **B.** cm
- ◯ **C.** cm^2
- ◯ **D.** cm^4

Question 10 A rectangle has area 48 cm^2 and length 8 cm. What is its width?

- ◯ **A.** 40 cm
- ◯ **B.** 6 cm
- ◯ **C.** 384 cm
- ◯ **D.** 12 cm

Answer grid - Perimeter, area and volume

Year: Year 7

Question	Answer	Explanation
1	**A**	Area is 9 x 4 = 36 and is measured in square units.
2	**B**	2 x (9 + 4) = 26.
3	**C**	Half of 8 x 5 = 20.
4	**D**	Base times height: 21.
5	**A**	Half x 12 x 5 = 30.
6	**B**	3 x 4 x 10 = 120.
7	**C**	1 litre = 1000 cm cubed.
8	**D**	Side 5 cm, area 25.
9	**A**	Volume uses cubic units.
10	**B**	48 / 8 = 6.