

Name

Date

GCSE Maths Practice Paper: Foundation

Topics: Number, Algebra, and Geometry

Total Marks: 15

1. Number:

Calculate 15% of 80.

[2 marks]

2. Number:

Work out $\frac{2}{5} + \frac{1}{4}$

Give your answer in its simplest form.

[2 marks]

3. Algebra:

Simplify fully: $3a + 2b - a + 4b$

[2 marks]

4. Algebra:

Solve the equation: $4x - 5 = 15$

[2 marks]

5. Algebra:

Expand the brackets: $3(2x + 7)$

[1 mark]

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6. Geometry:

A right-angled triangle has a base of 8 cm and a perpendicular height of 5 cm. Calculate the area of the triangle.

[2 marks]

7. Geometry:

A triangle has angles of 45° , 60° and x°

Work out the value of x .

[2 marks]

8. Geometry:

A cuboid has sides of length 3 cm, 4 cm, and 10 cm.

Calculate the volume of the cuboid.

[2 marks]

Mark Scheme

■ For teacher use only — Please do not distribute to students

1. $10\% = 8, 5\% = 4$ (1 mark). Answer = 12 (1 mark).
2. Common denominator 20: $\frac{8}{20} + \frac{5}{20}$ (1 mark). Answer = $\frac{13}{20}$ (1 mark).
3. $3a - a = 2a$ or $2b + 4b = 6b$ (1 mark). Answer = $2a + 6b$ (1 mark).
4. $4x = 20$ (1 mark). $x = 5$ (1 mark).
5. Answer = $6x + 21$ (1 mark).
6. $\frac{1}{2} \times 8 \times 5$ (1 mark). Answer = 20 cm^2 (1 mark).
7. $180 - (45 + 60)$ or $180 - 105$ (1 mark). Answer $x = 75$ (1 mark).
8. $3 \times 4 \times 10$ (1 mark). Answer = 120 cm^3 (1 mark).