GCSE Maths Practice Paper: Foundation

Name: _____ **Date:** _____

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]

GCSE Maths Practice Paper (Continued)

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

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)*.