Total Marks: 36 marks
Total Time: 30 minutes

Name: _____
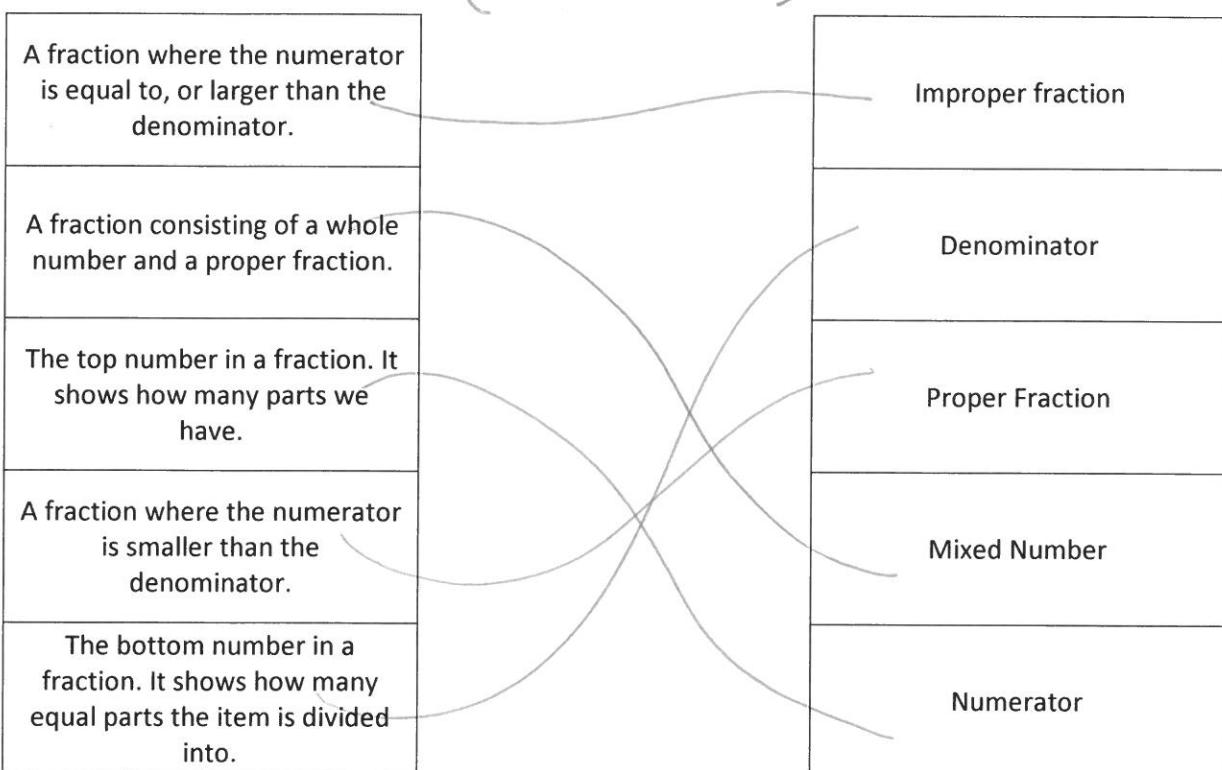
Show working and answers on this sheet. Show working in sufficient detail to support your answers.
Incorrect answers without supporting reasoning may be allocated zero marks.
No Resources Allowed

Question 1	**2 marks**

Match the definition on the left-hand side with the correct word on the right-hand side by drawing a line between each one: *(−½ each error)*

A fraction where the numerator is equal to, or larger than the denominator.	Improper fraction
A fraction consisting of a whole number and a proper fraction.	Denominator
The top number in a fraction. It shows how many parts we have.	Proper Fraction
A fraction where the numerator is smaller than the denominator.	Mixed Number
The bottom number in a fraction. It shows how many equal parts the item is divided into.	Numerator

Question 2	**1 mark**

What is $\frac{7}{100}$ converted to a percentage?

A   0.07%   **B**   70%   **(C)**   7%   **D**   0.7%

Question 3	**1 mark**

What is 0.09 converted to a fraction?

A $\frac{1}{90}$ **(B)** $\frac{9}{100}$ **C** $\frac{1}{9}$ **D** $\frac{9}{10}$

Question 4   **2 marks**

Calculate the perimeter and area of the rectangle on the grid above.

A   Perimeter _24 units_ ✓

B   Area _48 units²_ ✓

Question 7   **2 marks**

Convert each fraction to a decimal.

a $\frac{3}{5}$ 60% ✓

b $\frac{7}{8}$ 87.5% ✓

**Question 8**   **1 mark**
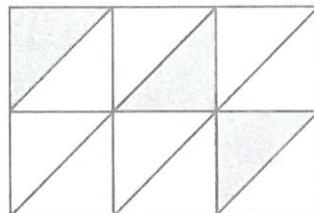
What fraction of this shape is shaded? (Simplest Form)

A $\frac{3}{10}$

B $\frac{1}{3}$

C $\frac{1}{8}$

(D) $\frac{1}{4}$ ✓

Question 9   **1 mark**

As a percentage, $\frac{1}{4}$ is equal to:

A 40%   B 20%   (C 25%)   D 10% ✓

Question 10   **6 marks**

Express each of the following as a fraction in its simplest form and as a percentage.

A   Mike scored 8 out of ten in his mental maths test.

Fraction $\frac{4}{5}$ ✓   Percentage   80% ✓

B   Janine shot 88 out of 100 goals at netball.

Fraction $\frac{88}{100} = \frac{22}{25}$ ✓   Percentage   88% ✓

C   Kim scored 18 out of 25 in her test.

Fraction $\frac{18}{25}$ ✓   Percentage   72% ✓

Question 11   **1 mark**

What is 30% as a fraction in its simplest form?

A $\frac{1}{3}$ B $\frac{3}{10}$ ⃝   C $\frac{1}{30}$ D   33.$\dot{3}$

✓

Question 12   **1 mark**

What is 120% as a decimal?

A   12.0   B   0.12   C   1.2 ✓   D   1.05

Question 13   **6 marks**

Calculate:

a   10% of $220 $22 ✓✓

b   50% of $96 $48 ✓✓

c   20% of 35 kg   7kg ✓✓

Question 14   **2 marks**

Jasmine spent 75% of her pocket money on badges. If she spent $21, how much was her pocket money?

21 ÷ 4 ✓ x 3 = $15.75 ✓

Question 15   **1 mark**

What is the perimeter of a rectangle 5 cm long and
4 cm high?

   A   9 cm   **B**   20 cm   **C**   18 cm   **D**   14 cm


Question 16   **1 mark**

A square has a perimeter of 25 m. What is the length of one side?
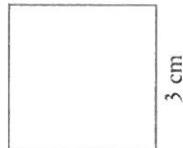
   A   2.5 cm   **B**   6.25 m   **C**   5 cm   **D**   12.5 cm

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Question 17   **2 marks**

Find the perimeter of each figure.

a   3 cm

$4 \times 3 = 12cm$ ✓

b   3 cm   2 cm

6   5   4 cm $28cm$ ✓
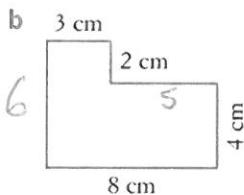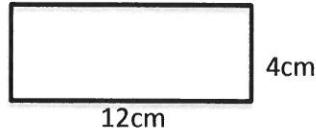
8 cm

Question 18   **2 marks**

Calculate the area of each figure.

a   4cm $12 \times 4 = 48cm^2$ ✓

     12cm

b

5 cm
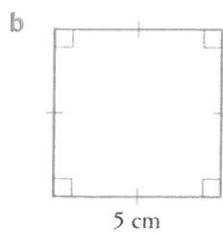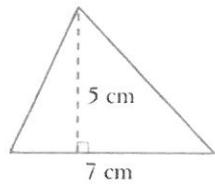
$5^2 = 25cm^2$

**Question 19**   **4 marks**

Calculate the area of each figure.

a

5 cm

7 cm

$\frac{1}{2} \times 5 \times 7 = 17.5cm^2$ ✓

1

2

3
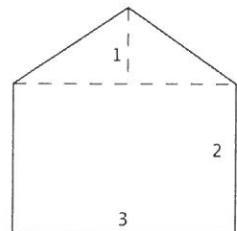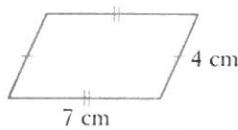
b   units are in m.

$(\frac{1}{2} \times 1 \times 3) + (2 \times 3) = 7.5m^2$ ✓ ✓

c

4 cm

7 cm

$7 \times 4 = 28cm^2$ ✓