

Mini Test 1

## Fractions, Decimals and Percentages.

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Name: Sol U. Tions

Total Marks: 40 marks  
Total Time: 30 minutes

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.

**1 page of notes (A4 Handwritten) 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:

A fraction where the numerator is equal to, or larger than the denominator.	- $\frac{1}{2}$ per error	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****2 mark**

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

- A 0.07% B 70% C 7% D 0.7%

b) What is  $\frac{21}{100}$  converted to a percentage?

- A 0.02% B 210% C 12% D 21%

**Question 3****2 mark**

a) What is 0.09 converted to a fraction?

- A  $\frac{1}{90}$  B  $\frac{9}{100}$  C  $\frac{1}{9}$  D  $\frac{9}{10}$

b) What is 0.73 converted to a fraction?

A  $\frac{73}{100}$

B

C  $\frac{7}{10}$

D  $\frac{1}{73}$

$\frac{37}{100}$

**Question 4**

**2 marks**

Convert each fraction to a decimal.

a  $\frac{3}{5}$

$3 \div 5 = 0.6$



$\frac{1}{2}$  marks for  
correct working

b  $\frac{7}{8}$

$7 \div 8 = 0.875$



**Question 5**

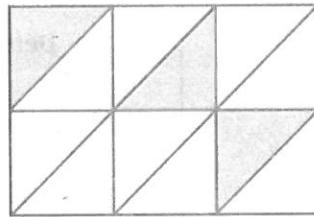
**1 mark**

What fraction of this shape is shaded? (Simplest Form)

B  $\frac{1}{3}$

C  $\frac{1}{8}$

D  $\frac{1}{4}$



**Question 6**

**2 mark**

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

A 40%

B 20%

C 25%

D 10%

As a percentage,  $\frac{13}{100}$  is equal to:

A 13%

B 31%

C 3%

D 10%

**Question 7**

**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.

$\frac{1}{2}$  marks  
 $\frac{8}{10}$  not simplified. Fraction  $\frac{8}{10} = \frac{4}{5}$  ✓

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  $\frac{18}{25}$  ✓

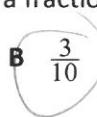
Percentage 72% ✓

**Question 8**

**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  $33.\dot{3}$

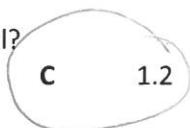


**Question 9**

**2 mark**

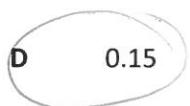
a) What is 120% as a decimal?

- A 12.0    B 0.12    C 1.2    D 1.05



b) What is 15% as a decimal?

- A 15    B 150    C 1.5    D 0.15



**Question 10**

**6 marks**

Calculate:

- a 10% of \$220

$$10 \div 100 \times 220 = \$22$$



- b 50% of \$96

$$50 \div 100 \times 96 = \$48$$



- c 20% of 35 kg

$$20 \div 100 \times 35 = 7 \text{ kg}$$



**Question 11**

**6 marks**

Calculate:

- a  $\frac{2}{5}$  of \$40

$$2 \div 5 \times 40 = \$16$$



- b  $\frac{3}{4}$  of \$16

$$3 \div 4 \times 16 = \$12$$



- c  $\frac{17}{20}$  of 400 kg

$$17 \div 20 \times 400 = 340 \text{ kg}$$



**Question 12****2 marks**

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

$$21 \div 100 \times 75 = \$28$$

**Question 13****6 marks**

Round each number to the leading digit (first digit) to approximately evaluate the following using estimation?

a)  $2.1 \times 3.4 = 2 \times 3 = 6$  ✓

b)  $449 + 453 = 400 + 500 = 900$  ✓

c)  $12.34 - 5.93 = 10 - 6 = 4$  ✓

d)  $47 \times 2.3 = 50 \times 2 = 100$  ✓

e)  $123 \div 11 = 100 \div 10 = 10$  ✓

e)  $63.2 \div 5.7 = 60 \div 6 = 10$  ✓