

## ATTEMPT ALL QUESTIONS:

$\checkmark$ Write your answers in the space available on the examination paper.
$\checkmark$ Show clearly all the necessary steps and explanations in your working.
$\checkmark$ Diagrams are NOT drawn to scale.
$\checkmark$ The use of calculators is NOT allowed.
$\checkmark$ This paper carries a total of 100 marks.
$\qquad$
$\qquad$

1. a) Write this number if figures:

Fifty three million, seven hundred and five thousand and twenty four.
b) Place the following numbers in ascending order of size:
c) Fill in the table below:

| NUMBER | NEAREST 10 | NEAREST 100 | NEAREST 1000 |
| :---: | :---: | :---: | :---: |
| 2733 |  |  |  |
| 10,504 |  |  |  |

2. Work out the following:
a) Andrew had 236 marbles. He lost 49 and later won 30 from his friend in the first game. During the second game, Andrew won 56 marbles but lost 97. How many marbles has he now?
b) If Andrew shared these marbles with his 3 brothers, what did each boy including himself get?

(4 marks)
3. Work out the following:
a) $77 \div(-11)=$
b) $50+(-10)=$
c) $673.421 \times 1000000=$
d) $56.8463 \div 1000=$
e) $5+6 \times 2-8 \div 2+9 \div 3=$
f) $(25+52) \div(10-3)=$
g) $\frac{6 \div 3-1}{12 \times 3-6}$
4. a) Give the value of $\mathbf{8}$ in:
i. 58,416
ii. $\underline{8} 74,615$
iii. 51,768
iv. 54.861
v. $\underline{8} 461.5$
vi. $765 . \underline{81}$
b) Place $>$ or $<$ or $=$ between these pairs of numbers to make the statement correct.
i. Two tens 4 units $\qquad$ 24
ii. 154.9 $\qquad$ 154.09
iii. $-99.9 \_-9.99$
c) Find the missing numbers given that,

$$
14 \times 22=308
$$

i. $\quad \times 14=308$
ii. $308 \div 22=$ $\qquad$
iii. $11 \times 14=$ $\qquad$
iv. $28 \times 22=$ $\qquad$
v. $14 \times 88=$ $\qquad$
5. Work out these problems.
a) Find the total of 8 tins of tuna costing 55 c each and 10 tins of baked beans at $€ 0.60$ per tin.
b) How many times can 45 be taken from 945 ?
c) The larger of two numbers is 2148 . Their sum is 3422 . Find the other number and the difference of the two numbers.
(2 marks)
d) A piece of wood is 108 cm long and is divided into 2 parts. If one part is twice as long as the other part, how long is each part?
6. a) Shade in $\frac{4}{6}$

|  |  |
| :--- | :--- |
|  |  |
|  |  |

b) Fill in the following table.

| Mixed Number | Improper Fraction |
| :---: | :---: |
| $5 \frac{2}{5}$ |  |
|  | $\frac{106}{3}$ |

c) Complete the table below.

| Fraction | Decimal Number |
| :---: | :---: |
| $82 \frac{36}{100}$ |  |
|  | 45.88 |

(5 marks)
d) Circle the fractions which are equivalent to $\frac{9}{12}$

$$
\frac{8}{10}, \quad \frac{18}{24}, \quad \frac{6}{9}, \quad \frac{12}{15}, \quad \frac{15}{20}, \quad \frac{30}{40}
$$

7. Work out the following:
a) $\frac{5}{8}+\frac{9}{16}-\frac{3}{4}$
b) $3 \frac{7}{8}+8 \frac{6}{7}$
c) $5 \frac{3}{7}-2 \frac{25}{35}$
8. a) Work out the following:
i. $\frac{2}{3} \times \frac{7}{10} \times \frac{5}{6}$
ii. $\frac{12}{17} \times \frac{1}{5} \div \frac{12}{5}$
iii. $\quad \frac{3}{4} \div \frac{1}{2}+\frac{1}{8}$
iv. $\quad \frac{4}{5}-\frac{3}{10} \div \frac{1}{2}$
b) There are 24 lolly pops in a bag and 9 of them are red. Two-thirds of the lolly pops are orange.
i. What fraction of the lolly pops are red?
ii. How many orange lolly pops are there?
9. Write the following in order, smallest first.
a) $0.5 \mathrm{~m}, \quad 35.9 \mathrm{~cm}, \quad \frac{1}{1000}$ of a kilometre, $\quad 512 \mathrm{~mm}$
b) $50 \mathrm{~km}, \quad 6,000 \times \frac{1}{10} \mathrm{~m}, \quad 700,000 \mathrm{~cm}, \quad 80000000 \mathrm{~mm}$
c) Write the following numbers as decimals and arrange your answers in ascending order.

$$
0.6 \times 10, \quad \frac{12}{25}, \quad \frac{400}{500}, \quad 0.071 \times 100
$$

d) Work out

$$
275.8 \times 0.001
$$

10. Find the perimeter and area of the white metal frame shown below if the thickness of the metal frame is 10 cm .


30 cm
$\qquad$
Perimeter

Area $\qquad$
11. Sam receives an aquarium for his birthday. The aquarium measures 30 cm by 20 cm by 15 cm and is made of glass.


If the aquarium does not have a top,
a) Find the amount of glass used to make up this aquarium.
b) Calculate the volume of water it can hold.
13. Find the sizes of the angles $a^{\circ}, b^{\circ}, c^{\circ}, d^{\circ}, e^{0}, f^{\circ}, g^{\circ}$ and $h^{\circ}$ giving reasons for your answers.
a.

b.

C.

(16 marks)

END OF PAPER

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