

Annual Examinations for Middle Schools 2023

YEAR 8

**MATHEMATICS
Non-Calculator Paper**

TIME: 30 minutes

Question	1	2	3	4	5	Total
Mark						

DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

Instructions to Candidates

- Answer ALL questions.
- This paper carries a total of 25 marks.
- Calculators and protractors are NOT ALLOWED.
- All necessary working must be shown.

1. a) Write down the first six multiples of:

i) 2 _____

ii) 4 _____

iii) 6 _____

b) Identify the least common multiple of 2, 4 and 6.

Ans: _____

c) **Circle** the odd one out.

41, 43, 45, 47

Reason: _____

(6 marks)

2. a) Work out, giving your answer as a **mixed number**:

$$1\frac{1}{3} + \frac{4}{5}$$

Ans: _____

b) Work out, giving your answer in its simplest form.

$$\frac{2}{7} \times \frac{7}{30}$$

Ans: _____

(6 marks)

3. Sue has 60 sweets. She gives $\frac{1}{6}$ of them to Mark and 20% of them to Amy.

Find:

- a) the amount of sweets Mark gets

Ans: _____

- b) the amount of sweets left for Sue

Ans: _____

(4 marks)

-
4. a) Work out:

i) 6^3

Ans: _____

ii) $\sqrt{81}$

Ans: _____

iii) Use your answers above to work out $\frac{6^3}{\sqrt{81}}$

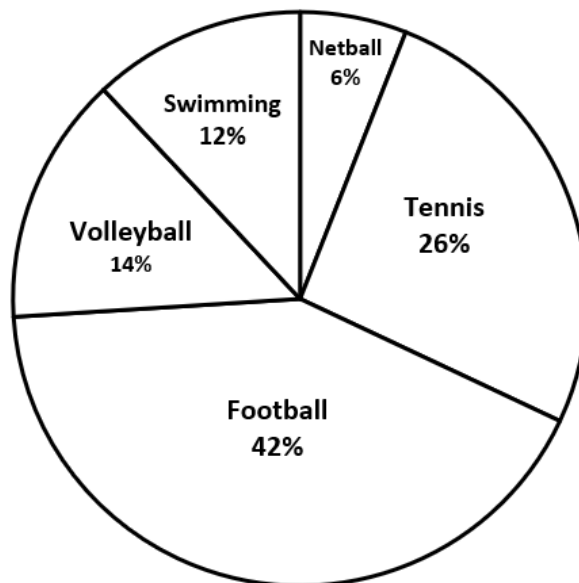
Ans: _____

- b) Given that $a = 3b + 2c$, find the value of a when $b = 2$ and $c = -5$.

Ans: $a =$ _____

(5 marks)

5. A group of Year 7 students are asked to name their favourite sport.
The pie chart shows the results.



- a) Which sport is the least favourite?

Ans: _____

- b) Express the percentage of students who prefer Tennis
- as a fraction in its lowest terms
 - as a decimal

Ans: i) _____

Ans: ii) _____

- c) Express the ratio Football : Swimming in its simplest form.

Ans: _____

(4 marks)

End of Non-Calculator Paper