



Annual Examinations for Middle Schools 2024

YEAR 8

MATHEMATICS
Non-Calculator Paper

TIME: 20 minutes

Name: _____ Class: _____

Mark

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries a total of 20 marks.**
 - **Questions 1 to 10 carry 1 mark each.**
 - **Questions 11 to 15 carry 2 marks each.**
- **Calculators and protractors are NOT ALLOWED.**

Questions 1 to 10 carry 1 mark each

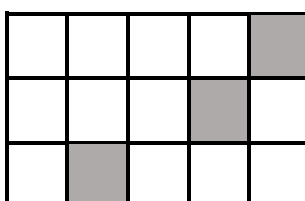
1. Work out: $3^2 \times 2^3$

Ans: _____

2. Write $15\frac{4}{25}$ as a decimal.

Ans: _____

3. What percentage of the shape is shaded?



Ans: _____

4. Which one of the following is the same as $25b \times 4b$?

- A) $100b$
- B) $100b^2$
- C) $(100b)^2$
- D) $29b$

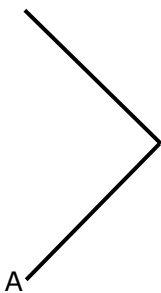
Ans: _____

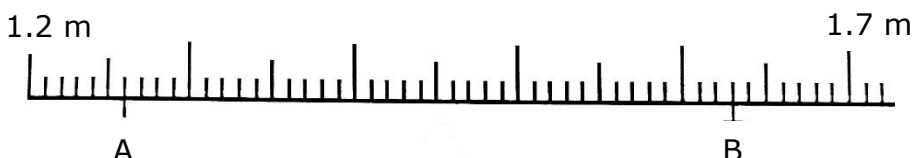
5. Work out: $7\frac{1}{5} + \frac{4}{5}$

Ans: _____

6. Work out: $9 - 13 - 7$

Ans: _____

7.	The ratio of yeast to flour in a pizza dough mixture is 1 : 50. How much yeast is mixed with 850 grams of flour? Ans: _____
8.	The following LOGO commands start at point A. Which one of these LOGO commands needs to be removed to get the diagram below? RT 45 FD 80 BK 80 LT 90 FD 80  Diagram not drawn to scale Ans: _____
9.	Eight kilograms of apples cost €16. How many kilograms of apples can I buy with €44? Ans: _____
10.	Use $\pi = 3$ to work out an estimate of the circumference of the circle of diameter 8 cm. Ans: _____
Questions 11 to 15 carry 2 marks each All necessary working must be shown.	
11.	Work out, giving your answer as a mixed number. $\frac{5}{7} + \frac{1}{2}$ Ans: _____

12.	Evaluate: $14 \div (19 - 12) + 3 \times 2$ Ans: _____
13.	Work out, giving your answer in its simplest form. $2\frac{1}{3} \div 4\frac{2}{3}$ Ans: _____
14.	What is the distance between A and B?  Diagram not drawn to scale Ans: _____
15.	Work out the value of $xy - 4y$ when $x = 8$ and $y = -5$ Ans: _____

END OF NON-CALCULATOR PAPER