



Annual Examinations for Secondary Schools 2022

YEAR 11

MATHEMATICS
Non-Calculator Paper

TIME: 20 minutes

Name: _____

Class: _____

Mark

INSTRUCTIONS TO CANDIDATES

- **Answer all questions.**
- **This paper carries a total of 20 marks.**
- **Calculators and protractors are NOT ALLOWED.**

No.	Question	Space for working if required
1	Work out $(-5) \times (-6)$. Answer: _____	
2	Work out $(42) \div (-3)$. Answer: _____	
3	Calculate $2 + 4 \times 3$. Answer: _____	
4	Change 63% to a fraction. Answer: _____	
5	Write $\frac{48}{72}$ in its lowest terms. Answer: _____	
6	A boat is drawn to scale and is 4 cm long. 1 cm represents 0.5 m. Find its actual length. Answer: _____m	
7	Write $6\frac{2}{3}$ as an improper fraction. Answer: _____	
8	Find the volume of a cuboid whose dimensions are 4 cm by 3 cm by 5 cm. Answer: _____cm ³	

9	Work out $4\frac{5}{8} - 1\frac{1}{4}$	
	Answer: _____	
10	The perimeter of a polygon is 200 cm long. This polygon is enlarged by a scale factor of 2. Find the new perimeter.	
	Answer: _____ cm	
11	Which is bigger: $\frac{3}{8}$ or $\frac{11}{24}$	
	Answer: _____	
12	Work out 6.1×0.8	
	Answer: _____	
13	Work out $\frac{14}{45} \times \frac{9}{21}$	
	Answer: _____	
14	Write the next term: 1, 2, 4, 7, 11, 16, _____	
15	Find the 10 th term of the sequence 1, 4, 9, 16, 25, ...	
	Answer: _____	
16	Find $\frac{4}{7}$ of 560 g.	
	Answer: _____ g	

17	<p>Work out $\frac{4}{7} \div 8$, giving your answer in its lowest terms.</p> <p>Answer: _____</p>	
18	<p>5, 5, 7, 7, 9, 9, 9, 11, 11, 11, 11</p> <p>Use the above numbers to find the</p> <p>(a) mode</p> <p>Answer: _____</p> <p>(b) range</p> <p>Answer: _____</p>	
19	<p>Decrease 1000 m by 8%.</p> <p>Answer: _____m</p>	

END OF NON-CALCULATOR PAPER