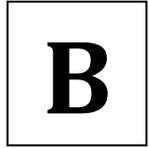


KULLEĠĠ SAN BENEDITTU
Boys Secondary School, Kirkop



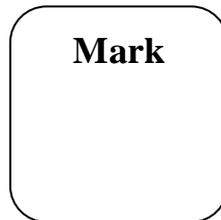
HALF-YEARLY EXAMINATIONS – FEBRUARY 2014

FORM 4

MATHEMATICS Scheme B

TIME: 20 mins

Non Calculator Paper



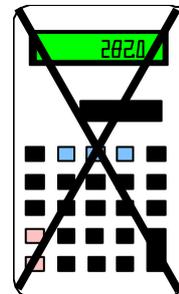
DO NOT WRITE ABOVE THIS LINE

NAME AND SURNAME: _____ **CLASS:** _____

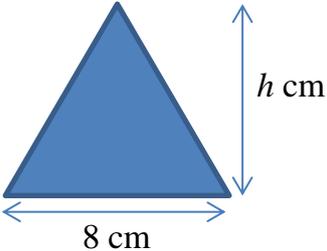
INSTRUCTIONS TO CANDIDATES:

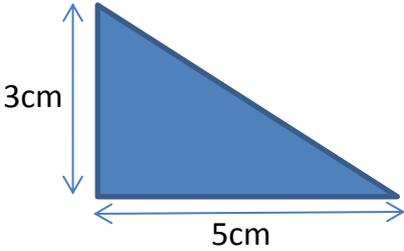
Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 20 marks.
- **Calculators, protractors** and other mathematical instruments are **NOT ALLOWED**.
- On your desk you should have nothing except for **pen, pencil, ruler** and the **examination paper**.
- You are not required to show your working. However, space for working is provided if you need it.



No.	Question	Space for working, if required.
1	Which of the following is the biggest number? 0.333, $\frac{1}{3}$, 0.3 Ans: _____	
2	Only one of the following statements is false . <u>Underline</u> the false statement. a) 7 is a factor of 77. b) 27 is a square number. c) 37 is a prime number. d) 57 is a multiple of 3.	
3	A company has 350 workers. $\frac{3}{5}$ of the workers are female . $\frac{2}{7}$ of these female workers are part-timers . Find the number of female part-time workers. Ans: _____	
4	Write 0.000451 in standard form. Ans: _____	
5	Evaluate: $9^2 + 9^1 + 9^0$ Ans: _____	
6	How many centimetres are there in 1 km? Ans: _____ cm	

7	<p>An athlete runs 100 metres in 10 sec. Work out the speed in km/hr.</p> <p style="text-align: right;">Ans:_____ km/hr</p>	
8	<p>Multiply 62 by 15.</p> <p style="text-align: right;">Ans:_____</p>	
9	<p>Work out the value of $10 - x^2$, given that $x = 3$</p> <p style="text-align: right;">Ans:_____</p>	
10	<p>A can of lemonade costs 52cents. What is the largest number of cans that can be bought for €10?</p> <p style="text-align: right;">Ans:_____ cans</p>	
11	<p>The area of triangle is 20 cm^2. Work out the height h of the triangle.</p> <div style="text-align: center;">  <p>The diagram shows a blue triangle with a horizontal base. Below the base is a double-headed arrow labeled "8 cm". To the right of the triangle, a vertical double-headed arrow extends from the level of the base to the top vertex, labeled "h cm".</p> </div> <p style="text-align: right;">Ans:_____ cm</p>	
12	<p>Estimate the circumference of a circle having a diameter of 14 cm. (Take $\pi = \frac{22}{7}$)</p> <p style="text-align: right;">Ans:_____ cm</p>	
13	<p>Work out the value of x.</p> <div style="text-align: center;">  <p>The flowchart consists of four boxes connected by arrows from left to right. The first box contains 'x', the second contains '×8', the third contains '-2', and the fourth contains '54'.</p> </div> <p style="text-align: right;">Ans:_____</p>	

14	<p>Write down an estimate for</p> $5.02 \times (9.93 - 1.88)$ <p>Ans: _____</p>	
15	<p>Write $\frac{8}{25}$ as a decimal.</p> <p>Ans: _____</p>	
16	<p>Underline the largest number.</p> <p>a) 1^9 b) $\sqrt{100}$ c) 3^2 d) 2^3</p>	
17	<p>Which is the best estimate of the hypotenuse?</p> <p>a) 6cm b) 7cm c) 8cm d) 10cm</p>  <p>Ans: _____</p>	
18	<p>Fill in with +, -, × or ÷</p> $20 \text{ ____ } 5 + 300 \text{ ____ } 6 = 150$ <p>Ans: _____</p>	
19	<p>Write down the missing numbers.</p> <p>a) 15, 10, 5, 0, _____ b) 1, 3, 9, _____, 81</p>	
20	<p>Work out $1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$.</p> <p>Ans: _____</p>	