End-of-Year Examination

100

Paper 1 (50 marks)

Answer all the questions. Show your working clearly. No calculators are allowed for this paper.

1. Evaluate the following.
   (a) $1111 - 222 + 99$
   (b) $40 \times 5 \div 6$

Ans: (a) _____ [1]

(b) _____ [2]

2. Evaluate the following.
   (a) 0.7×0.03
   (b) $2.89 + 1.7 - 1.04$

Ans: (a) _____ [1]

(b) _____ [2]

3. Given 4, 7, 10, 13, 16, …
   (a) write down the 6th term,
   (b) write down the *n*th term.

Ans: (a) _____ [1]

(b) _____ [1]

4. (a) Write 4 tens, 8 tenths and 7 hundredths as a decimal.
   (b) State the place value of the digit 6 in 601.432.

Ans: (a) _____ [1]

(b) _____ [1]

5. Draw a number line to represent all the multiples of 3 between 7 and 21. [2]

10. (a) Express 60 cm as a percentage of 4 m.
(b) Find 95% of $2.40.

Ans: (a) _____ [2]

(b) _____ [2]

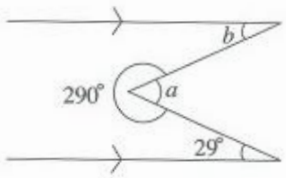
11. (a) Express $2\frac{9}{11}$ as (i) a recurring decimal,
(ii) a decimal correct to 2 decimal places.
(b) Find the percentage increase from 4 *l* to 5.5 *l*.

Ans: (a) (i) _____ [1]

(ii) _____ [1]

(b) _____ [2]

12. Find $\angle a$ and $\angle b$.



Ans: _____ [3]

13. Given that $x = \frac{1}{2}$, $y = 4$ and $z = -2$, evaluate

(a) $xy - z$

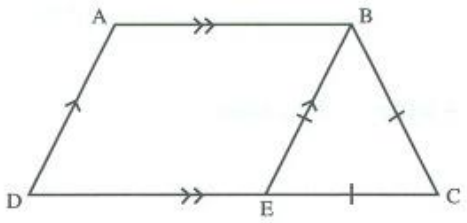
(b) $z^2 - \frac{x}{y}$

Ans: (a) _____ [2]

(b) _____ [2]

14. (a) Sketch a cuboid [1]
(b) Draw the net of a cube of edge 3.5 cm. [2]

15. Trapezium $ABCD$ is made up of parallelogram $ABED$ and equilateral triangle BCE.



Given that $AB = 7$ cm, $DC = 11$ cm and the area of parallelogram $ABED = 35$ cm^2, find
(a) the area of trapezium $ABCD$,
(b) the perimeter of trapezium $ABCD$.

Ans: (a) _____ [3]

(b) _____ [2]

16. A dice is thrown 24 times and the results are recorded in the table below.

4	5	1	2	1	3	6	2
3	6	4	4	2	1	5	5
4	2	2	3	6	1	5	4

(a) Complete the tally chart below. [2]

Score on dice	Tally	Frequency
1		
2		
3		
4		
5		
6		

(b) How many percent of the throws has a score of 'more than 3'?

(c) If the information in the frequency table is represented by a pie chart, calculate the angle representing the score 5.

Ans: (b) _____ [1]

(c) _____ [2]