

NAME: ADM. NO:

CANDIDATE'S SIGNATURE: DATE:

121 - ALT A
MATHEMATICS
FORM 2 END OF TERM EXAMINATIONS
MARCH-2018 TERM 1
TIME: 60 MIN

CANDIDATE'S SCORE

FOCUS A365

Another Manyamfranchise.Com Evaluation Test

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Kenya certificate of secondary education (K.C.S.E) Assessment Test

Answer All Question Provided in this Question Paper (30 MARKS)

- 1 Two neon lights are turned on at the same time. One blinks every 4 seconds and the other blinks every 6 seconds. In 60 seconds, how many times will they blink at the same time? **3 mks**

- 2 Evaluate: **2 mks**
- $$\sqrt[3]{27x^3y^9}$$

3 Find the reciprocal of 0.002978 from a mathematical table

2 mks

4 Use logarithm tables to evaluate:

4 mks

$$\sqrt{\frac{13.28 \times 27^{\frac{1}{3}}}{2 \div 0.012}}$$

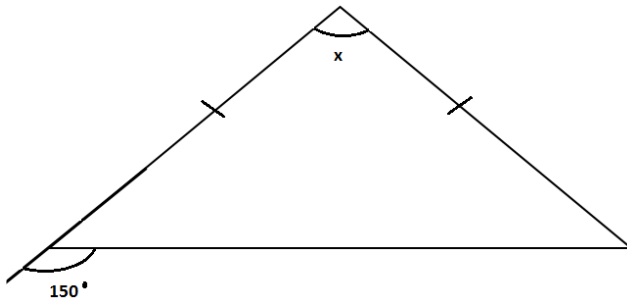
5 a The sum of **four** consecutive even numbers is 60. Find the numbers.

2 mks

- b Simplify the expression
 $5a - 4b - 2[a - (2b + c)]$

2 mks

- c Calculate the size of $\angle x$ and state an angle property that satisfies your answer 2 mks

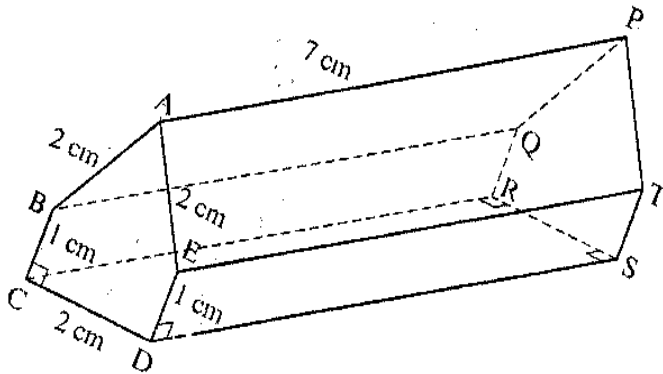


- 6 A line $y = \frac{1}{3}x + 1$ is perpendicular to line XY passing through coordinate (4,3). What is the equation on line XY? (give your answer in the form $y = mx + c$)

3 mks

- 7 A shopkeeper made a loss of 30% by selling an electric iron at sh. 700. What profit would he have made had he sold it at sh. 1150? **3 mks**

- 8 The figure below represents a prism of length 7 cm $AB = 2$ cm $AE = CD = 2$ cm and $BC - ED = 1$ cm **3 mks**



Draw the net of the prism

9 It takes 30 workers 6 days working 8 hours a day to harvest maize in a farm. **2 mks**
How many days would 50 workers working 6 hours a day take to harvest the maize?

10 All prime numbers less than ten are arranged in descending order to form a number.

a. Write down the number formed. **1 mk**

b. State the total value of the second digit in the number formed in (a) above. **1 mk**

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