KAMPALA CAPITAL CITY AUTHORITY KCCA P.7 MATH MOCK MARKING GUIDE 2024 SECTION A

$$\begin{array}{r}
2y + y + 3y \\
3y + 3y \\
\underline{6y}
\end{array}$$

3.
$$1101_{two} = (1 \times 2^{3}) + (1 \times 2^{2}) + (0 \times 2^{1}) + (1 \times 2^{0})$$

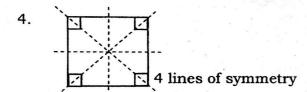
$$= (1 \times 2 \times 2 \times 2) + (1 \times 2 \times 2) + (0 \times 1) + (1 \times 1)$$

$$= (2 \times 4) + (2 \times 2) + (0 \times 1) + (1 \times 1)$$

$$= 8 + 4 + 0 + 1$$

$$= 12 + 1$$

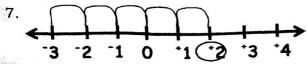
$$= 13_{ten}$$



5.
$$2^{n} = 8$$
 $2^{n} = 2 \mid 8$
 $2 \mid 4$
 $2 \mid 2$
 1
 $2^{n} = 3^{1}$
 $2^{n} = 2$

$$n = 3$$
 elements

6.
$$\sqrt{0.36} = \sqrt{\frac{36}{100}} = \frac{6}{10} = \frac{0.6}{10}$$



+2 is five stem to the right of -3

8. Sum of item = mean

no. of item
$$\frac{(x + 4 + 6 + 8 + 9)}{8} = 6 \times 5$$

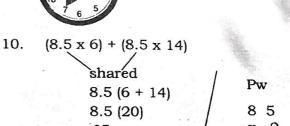
$$X + 10 + 17 = 30$$

$$X + 27 - 27 = 30 - 7$$

$$x = 3$$

9.

11.



8:35 am is the morning

time shown.

2, 3, 5, 7, <u>11 (Prime numbers)</u>

Next number

12.

13. Length = 1 numeral (last pole – 1st pole)
=
$$5m (62 - 1)$$

= $5m (61)$
= $5m \times 61$
= 305 metres

14.
$$(9 \times 10^2) + (7 \times 10^0) + (8 \times 10^{-1})$$

= $(9 \times 100) + (7 \times 1) + \frac{8}{10}$
= $900 + 7 + 0.8$
= 907.8