

KAMPALA CAPITAL CITY AUTHORITY P.7 MATHEMATICS MOCK MARKING GUIDE

2022.

SECTION A

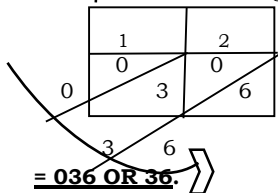
NO.1

$$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$$

$$\begin{array}{l} 3 \times 2 = 6 \\ 3 \times 1 = 3 \end{array}$$

To

$$\begin{array}{l} 12 = (1 \times 10) + (2 \times 1) \\ = 10 + 2 \\ = (3 \times 10) + (3 \times 2) \\ = 30 + 6 = \underline{36} \end{array}$$



= 036 OR 36.

NO. 2

2 0 3 Five

1 4 Five

1 3 4 Five

NO. 3

$$3n = 80^\circ + 40^\circ$$

(sum of 2
Int < 3 = 1
Opp Ext <

$$\frac{3n}{3} = \frac{120^\circ}{3}$$

n = 40°

NO. 4

$$\begin{array}{l} (2 \times 3) + -2 \\ \hline 3 \end{array} = \frac{6-2}{3} = \frac{4}{3} \text{ 1 rem 1}$$

$$\begin{array}{l} 6 + (-2) \\ \hline 3 \end{array} = \frac{4}{3} = 1\frac{1}{3}$$

NO. 5

Sample space = {1, 2, 3, 4, 5, 6}

Event = {1, 4}

$$P = \frac{n(E)}{n(s.s)} = \frac{2}{6}$$

NO. 6

$$\begin{aligned} &= (7 \times 10 \times 10 \times 10) + (6 \times 10) + (8 \times \frac{1}{10^1}) \\ &+ (4 \times \frac{1}{10^2}) \\ &= 7000 + 60 + (8 \times \frac{1}{10}) + (4 \times \frac{1}{10 \times 10}) \\ &= 7000 + 60 + (\frac{8}{10}) + (\frac{4}{100}) \\ &= 7000 + 60 + 0.8 + 0.04 \\ &= 7000.00 \end{aligned}$$

$$\begin{array}{r} 7000.00 \\ 60.00 \\ 0.80 \\ 0.40 \\ \hline = 7060.84 \end{array}$$

NO. 7

$$\frac{1}{2}L = 1 \text{ Child}$$

$$1L = (1 \div \frac{1}{2}) \text{ Children}$$

$$= (1 \times \frac{2}{1}) \text{ Children}$$

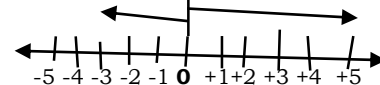
$$20L = (2 \times 20) \text{ Children} = \underline{40 \text{ Children}}$$

NO. 8

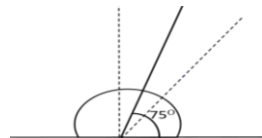
$$\begin{array}{r} 8+10+4+1+6+9 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 38 \text{ 19} \\ -6 \text{ 3} \\ \hline 6 \text{ rem 1} = 6\frac{1}{3} \end{array}$$

NO.9



NO. 10



NO.11

= Ug.sh.(3600×1050)

= Ugsh. 3,780,000

NO. 12

$$\begin{array}{l} 147 = 100 + 40 + 7 \\ = C + XL + VII \\ 147 = \underline{CXLVII} \end{array}$$

$$\begin{array}{l} 100 = C \\ 40 = XL \\ 7 = VII \\ 147 = \underline{CXLVII} \end{array}$$

NO.13

$$\begin{array}{l} \frac{2 \times 2 + 1}{2} \% \\ = \frac{5}{2} \% \\ = \frac{5}{2} \div \frac{100}{1} \\ = \frac{5}{2} \times \frac{1}{100} \\ = \frac{1 \times 1}{2 \times 20} \\ = \frac{1}{40} \end{array}$$

NO.14



NO. 15.

$$\begin{aligned} &= 90^\circ - (2x + 30^\circ) \\ &= 90^\circ - 2x - 30^\circ \\ &= 90^\circ - 30^\circ - 2x \\ &= \underline{60^\circ - 2x} \end{aligned}$$

NO. 16

$$\begin{aligned} &= \frac{P}{2} + \frac{1}{1} = \frac{3}{1} \text{ LCD} = 2 \\ &= (\frac{P}{2} \times 2) + (\frac{1}{1} \times 2) = (\frac{3}{1} \times 2) \\ &= P + 2 = 6 \\ &= P + 2 - 2 = 6 - 2 \end{aligned}$$

P = 4

NO.17

$$\begin{array}{l} A = B \times H \\ = 12dm \times 8dm \\ = \underline{96dm} \end{array}$$

NO. 18

$$\begin{array}{r} \text{HRS} \quad \text{MIN} \\ 3^1 \quad 45 \\ +1 \quad 50 \\ \hline 5 \quad 35 \end{array}$$

$$\begin{array}{r} 45 \\ +50 \\ \hline 95 \\ -60 \\ \hline 35 \text{ OR} \\ \frac{95}{60} = 1 \text{ rem } 35 \end{array}$$

NO. 19

Fraction given out

$$\begin{aligned} &= \frac{1}{4} \text{ of } \frac{2}{3} \\ &= \frac{1}{4} \times \frac{2}{3} = \frac{1}{6} \end{aligned}$$

Fraction remained

$$\begin{aligned} &= \frac{2}{3} - \frac{1}{6} \\ \text{VLCD} = 6 \\ &= \frac{(\frac{2}{3} \times 6) - (\frac{1}{6} \times 6)}{6} \\ &= \frac{(2 \times 2) - (1 \times 1)}{6} \\ &= \frac{4-1}{6} = \frac{3}{6} = \frac{1}{2} \end{aligned}$$

NO. 20

$$(2x+50) = (4x+20)$$

$$2x+50 = 4x+20$$

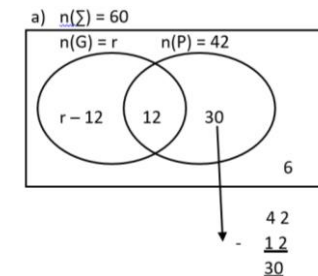
$$50 - 20 = 4x - 2x$$

$$\frac{30^{15}}{2_1} = \frac{2x^1}{1_1}$$

$$15 = x$$

SECTION B

NO.21



b)

$$r - 12 + 12 + 30 + 6 = 60$$

$$r + 12 + 30 + 6 - 12 = 60$$

$$r + 48 - 12 = 60$$

$$r + 36 = 60$$

$$r + 36 - 36 = 60 - 36$$

$$r = 24 \text{ Students.}$$

$$c) = r - 12 + 30$$

$$= (24 - 12) + 30$$

$$= 12 + 30$$

$$= \underline{42 \text{ students.}}$$

NO.22

ITEM	UNIT PRICE	QUANTITY	AMOUNT	
Bread			Sh.7000	7000
Meat		$\frac{1}{2}$ Kg	Sh.5000	5000
Rice	Sh.4000 per kg		Sh.6000	6000
Sugar			Sh.4500	4500
Milk			Sh.3000	+3000
Total expenditure			Sh.25,500	25500

Bread

$$\begin{array}{r} 3500 \\ \times 2 \\ \hline 7000 \end{array}$$

Meat

$$\frac{15000}{10000} = \frac{1}{2}$$

$$= a^4$$