

P. 5 MTC BEGINNING OF TERM THREE MARKING GUIDE

8.

9.

4.

10.

42 apples represent 42

5.

6.

11.

7.

12

13.

14. $-5 - -7$

$$\frac{-5 + 7}{2}$$

15. 1 pencil cost sh.1200
4 pencil cost sh. 1200
x 4
sh. 4800

16. $2 \times 2 \times 3 \times 3$
 4×9
36

17. (4 7 9 + 6 8 5) trees
= 1 1 6 4 trees

18. A - B or A only

19. 7 6 . 0 5 points
2 1 . 0 0 points
5 5 . 0 5 points

20. $2x - 5 = 11$
 $2x - 5 + 5 = 11 + 5$
 $2x = 16$
 $2x = 16$
 $\frac{2x}{2} = \frac{16}{2}$
 $x = 8$

SECTION:B

21. T 0 THS HTTHS
2 3 . 4 3 0 TTTHS

$(4 \times \frac{1}{10}) = \frac{4}{10} = 0.4$

b) $\frac{12}{100} = \frac{3}{25}$

c) 2 6 . 2 4
+ 1 3 . 6
3 9 . 8 4

22. $1 \times 72 = 72$
 $2 \times 36 = 72$
 $3 \times 24 = 72$
 $4 \times 18 = 72$
 $6 \times 12 = 72$
 $8 \times 9 = 72$

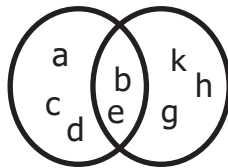
$F_{72} = \{1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72\}$

b)

2	72
2	36
2	18
3	9
3	3
1	

$\{2_1, 2_2, 2_3, 3_1, 3_2\}$

23. $X = \{a, b, c, d, e\}$
 $Y = \{b, g, h, e, k, m\}$



b) $n(X - Y)$
 $X - Y = \{a, c, e\}$
 $n(X - Y) = 3$

c) $n(X \cup Y)$
 $X \cup Y = \{a, c, d, b, e, g, h, k, m\}$
 $n(X \cup Y) = 9$

24. Rice meat
sh. 7000 3kg = sh. 27000
2 1kg = sh. 27000
sh. 3500 3
sh. 9000
2kg = sh. 9000 x 2
= sh. 18000

sh. 18000
+ sh. 3500
sh. 21500
sh. 27000
sh. 7000
sh. 3600
+ sh. 2000
sh. 39600
change
sh. 60000
- sh. 39600
sh. 20400

25. $\frac{1}{2} \times b \times h$
 $\frac{1}{2} \times 12\text{cm} \times 8\text{cm}$ $1 \times 6\text{cm} \times 8\text{cm}$
 $= 48\text{cm}^2$

b) P= Add all sides
= S + S + S
= 12cm + 9cm + 9cm
= 30cm

26. $\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$

b) $\frac{3}{8} \times 240$ learners (3 x 30) learners
 $\frac{3}{8} \times 240$ learners = 90 boys
 $\frac{5}{8} \times 240$ 5 x 30
 $\frac{5}{8} \times 240$ 150 girls
150 girls
(150 - 90) more girls
= 60 more girls

27. $5a + 2b - 3a + 4b$
 $5a - 3a + 2b - 4b$
 $2a - 2b$

b) $3x + 5y - x$
 $3x - x + 5y$
 $2x + 5y$

28. $x + 35^0 + 128^0 = 180^0$
 $x + 163^0 = 180^0$
 $x + 163^0 - 163^0 = 180^0 - 163^0$
 $x = 17^0$

b) $2x + 40^0 + 90^0 = 180^0$
 $2x + 130^0 = 180^0$
 $2x + 130^0 - 130^0 = 180^0 - 130^0$
 $2x = 50^0$
 $\frac{2x}{2} = \frac{50^0}{2}$
 $x = 25^0$

29. $\frac{1}{3} \times 12$ $\frac{1}{2} \times 12$ $\frac{1}{6} \times 12$ LCM = 12
3 2 6
4 6 2
Ascending order: $\frac{1}{6}, \frac{1}{3}, \frac{1}{2}$

b) $\frac{3}{5} = \frac{5}{5}$
H 3 T O
9 2 5
(9 x 100) + (2 x 10) + (5 x 1)
900 + 20 + 5

30. b) $(2 \times W) + (3 \times W) = (1 \times 10) + (9 \times 10)$
 $2 \times W + 3 \times 1 = 1 \times 10 + 9 \times 1$
 $2W + 3 = 10 + 9$
 $2W + 3 - 3 = 19 - 3$
 $2W = 16$
 $\frac{2W}{2} = \frac{16}{2}$
 $W = 8$