INDIAN SCHOOL MUSCAT – MIDDLE SECTION – DEPARTMENT OF MATHEMATICS – (2017 – 18)
FINAL EXAMINATION – MATHEMATICS – MARKING SCHEME CUM ANSWER KEY – CLASS 6

S.NO	SECTION – A (Q.NO. 1 TO 6) ('1' MARK EACH)	MARKS
1	Write the opposite of (-7+16) = -7+16 =9 Opposite of 9= (-9)	½ +½
2	(x + 15) years or (15 + x) years	1
3	0.05	1
4	24 meters to 44 meters = 24 : 44 = 6 : 11	½ +½
5	56 98 x 25 x 4 = 5698 x 100 == 569800	½ +½
6	22 – 19 = 3 cm	½ +½

S.NO	SECTION – B (Q.NO. 5 TO 10) (' 2' MARKS EACH)	MARKS
7	Product of Extremes = 16 x 30 = 480	1
	Product of Means = 24 x 20 = 480	1
	Ans : Yes	
8	L = 25m, B = 15m Perimeter of the Rectangular park = 2 x [L + B] = 2 × [25 + 15] = 2 × 40 = 80m ----- [1] Distance covered in 4 rounds = 4 × 80 = 320m ----- [1]	
9	Draw an angle $\angle PQR$ =130° of measure 100°and naming	1
	Construct its bisector.	1
10	Draw No: line with proper marking and arrows (1 mark) Add : 5 - 4 + 3 = 5+ 3 – 4 = 8 – 4 = 4 (1 mark)	
11	$\frac{5}{8} \times \frac{2}{2} = \frac{10}{16}$ (1 Mark) $\frac{5}{8} \times \frac{3}{3} = \frac{15}{24}$ (1 Mark)	
12		

Observations	Tally marks	Frequency
1	III	3
2	III	3
3	\ IIII	5
4	\ IIII I	6
5	\ IIII	5
6	III	3
		Total=25

Writing frequency by putting tally marks—1 $\frac{1}{2}$

Total --half

S.NO	SECTION – C (Q.NO. 11 TO 18) (' 3 ' MARKS EACH)	MARKS
13	2 16, 24, 40 2 8 12 20 2 4 6 10 2 3 5 LCM = 2 x 2 x 2x 2 x 3 x 5 = 240 (2 Marks) Hence the required number is 240 + 5 = 245 (1 Mark)	
14	Draw line segment AB = 6.7 cm and naming	1
	Draw XY the the perpendicular bisector of AB and naming	1
	Naming AB, XY, and XY ⊥ AB	1

15	$\frac{4}{6}$; $\frac{5}{8}$; $\frac{7}{12}$; $\frac{3}{4}$ LCM Of 6, 8, 12, 4 = 24	½
	$\frac{4}{6} = \frac{16}{24}$; $\frac{5}{8} = \frac{15}{24}$; $\frac{7}{12} = \frac{14}{24}$; $\frac{3}{4} = \frac{18}{24}$	½ + ½ + ½ + ½
	Descending order: $\frac{18}{24}$ > $\frac{16}{24}$ > $\frac{15}{24}$ > $\frac{14}{24}$ **Ans:** $\frac{3}{4}$ > $\frac{4}{6}$ > $\frac{5}{8}$ > $\frac{7}{12}$	½
16	**LHS = y + 25 = (– 5) + 25 = 20 not equal to RHS ------ [1] + [1]** **Hence y = (– 5) is NOT a solution of the equation y + 25 = 30 ----- [1]**	
17	**a)Commutative property----------(1) b)associative property----------(1)** **c) Closure property ----------(1)**	
18	**Arranging ($1\frac{1}{2}$marks)** **25.000** **86.941 +** **0.760** **112.701 ($1\frac{1}{2}$marks**	
19	**Area of the room = 4 m x 3 m = 400 cm x 300 cm**	1
	Area of the tile = 10 cm x 12 cm	1
	Number of tiles = Area of the room ÷ Area of the tile **= 400 x 300** **10 x 12** **= 1000** **Ans: 1000 tiles**	1
20	**Distance covered in 1 hour =320÷8 =40 km----------1** $\frac{1}{2}$ **Distance covered in 12 hours=40×12= 480 km----------1** $\frac{1}{2}$	
21	**(-16) + 18 – (20) +25** **-16 + 18 -20 +25 ($\frac{1}{2}$marks)** **-16 -20 +18 +25 (1 Mark)** **-36 + 43 (1 Mark)** **7 ($\frac{1}{2}$marks)**	
22	**a) Thursday 8 x 4 = 32 books b) 4 x 4 = 16 books c) 26 x 4 = 104 books (1 Mark each)**	

S.NO	SECTION D (Q.NO. 19 TO 23) ('4' MARKS EACH)	MARKS
23	**Total amount earned = Rs845.65 + Rs485.30 + Rs679.35 + Rs489.70 ----- [1]** **= Rs2500.00 ----- [1]** **Amount left with him = Rs2500.00 – Rs460.40 ----- [1]** **= Rs2039.60 ----- [1]**	
24	**Drawing a ray**	½
	Construct 60˚	1
	Construct 120˚	1
	Bisect 60˚ and 120˚	1
	Name the angle /XYZ	½

25	a) 9 x + 10 or 10 + 9x	1
	b) 5 - $\frac{x}{2}$	1
	c) 2y ÷ 7	1
	d) 3p + 4 (or) 4 + 3p	1
26	(– 80) + 92 – (– 47) = – 80 + 92 + 47 ----- [1/2] = – 80 + 139 ----- [1/2] = +59 ----- [1/2] + 59 > – 76 ------ [1/2] (– 80) + 92 – (– 47) is greater ------ [1/2] (– 50) – 123 + 97 = – 50 – 123 + 97 ----- [1/2] = – 173 + 97 ----- [1/2] = – 76 ----- [1/2]	
27	Total = 40 Classical Dance = 12 ; English Debate = 15 ; Singing = 13 ----- [1/2] I. Dance : Debate = 12 : 15 = 4 : 5 ----- [1/2 + 1/2] II. Dance : Singing = 12 : 13 ----- [1/2] III. Debate : Total = 15 : 40 = 3 : 8 ----- [1/2 + 1/2] Total : Dance = 40 : 12 = 10 : 3 ----- [1/2 + 1/2]	
28	Area of the room=9×9=81 sq.m----------(1) Area of the carpet=4.5×4=18.0=18 sq.m----------(1) Area of the room not carpeted=81-18--------(1) =63 sq.m ----------(1)	
29	a) 67 – 28 = 39 – 1 = 38	2
	b) Identity property of addition of whole numbers	1
	c) 10100	1
30	Drawing x and y axis and marking 0	1
	Writing scale	1
	Drawing bar graph	2