



**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
HALF YEARLY EXAMINATION 2019 – 20**



SUBJECT – MATHEMATICS

Code: MXM13

CLASS 6

SET B – ANSWER KEY

Time Allotted: 2 ½ hrs.

05. 03. 2020

Max .Marks: 80

General Instructions.

1. The question paper comprises of four sections **A, B, C** and **D**. You have to **attempt all** the sections.
2. All the questions are **compulsory**.
3. All the answers should be written in the **answer sheet** provided.

Q.NO1	SECTION 'A' – ('1' MARK EACH) – TOTAL – 20 MARKS	Marks
(a)	The predecessor of 2 09 999 is _____ a) 2 10 000 b) 2 09 910 c) 2 09 100 d) 2 09 998 Ans: 2 09 998 (d)	1
(b)	The decimal for 248 hundredths is _____ a) 0.248 b) 2.48 c) 24.8 d) 0.0248 Ans: 2.48 (b)	1
(c)	The ratio of 15cm to 20cm is _____ a) 3 : 4 b) 4 : 3 c) 5 : 4 d) 3 : 5 Ans: 3 : 4 (a)	1
(d)	23 Kg 25 g = _____ Kg a) 23.250 b) 23.025 c) 23.205 d) 2.3025 Ans: 23.025 (b)	1
(e)	The perimeter of a regular hexagon is 48cm. The length of each of its side is _____ cm a) 42 b) 8 c) 288 d) 54 Ans: 8 (b)	1
(f)	The expression for the statement “ ‘m’ subtracted from 15” is _____ Ans: 15 – m	1
(g)	What fraction of a litre is 700ml? Ans: 700 / 1000 = 7 / 10 [1/2 + 1/2]	1
(h)	The additive inverse of (– 47) is _____. Ans: + 47	1
(i)	The product 4 x 278 x 25 = _____ Ans: 278 x 100 = 27 800 [1/2 + 1/2]	1
(j)	(– 13) + (– 10) = _____ Ans: (– 23)	1
(k)	The mixed fraction for $2\frac{5}{7}$ is _____ Ans: $\frac{19}{7}$	1
(l)	Of the 2 integers (– 19) and (– 91) _____ lies on the right. Ans: (– 19)	1
(m)	Radha is ‘y’ years old now. Her age after 8 years will be _____ years. Ans: y + 8	1
(n)	The perimeter of a square of each side 9 cm is _____ Ans: 4 x 9 = 36cm [1/2 + 1/2]	1
(o)	5 : 10 :: 4 : 8 is _____ [True or False] Ans: 1 : 2 = 1 : 2 OR 40 = 40 [1/2 + 1/2]	1
(p)	The length of rope required to fence a park 10 m long and 8 m wide is _____ Ans: 2 x 18 = 36m [1/2 + 1/2]	1
(q)	Out of 40 students in a class, 25 students are boys. The ratio of number of boys to the total number of students is _____. Ans: 25 : 40 = 5 : 8 [1/2 + 1/2]	1
(r)	For a pictograph on flowers, if one symbol of Δ = 5 flowers, then _____ symbols will represent 100 flowers. Ans: 20 symbols	1

Q.NO1	<u>SECTION 'A' – ('1' MARK EACH) – TOTAL – 20 MARKS</u>	Marks
(s)	Fill in the blanks: $\frac{28}{35} = \frac{4}{\quad} = \frac{\quad}{45}$ Ans: Dr. = 5 ; Nr. = 36 [1/2 + 1/2]	1
(t)	In the given data of marks scored by 15 students which is as follows: 10, 9, 9, 8, 5, 7, 7, 9, 9, 10, 8, 8, 9, 6, 6, the frequency of '9' is _____. Ans: 5	1

Q.NO	<u>SECTION 'B' – ('2' MARKS EACH) – TOTAL – 12 MARKS</u>	Marks
(2)	Add using number line: $(-5) + (+7)$ Ans: Correct number line with zero marked [1] Answer = (+ 2) [1]	2
(3)	The cost of a note book is Rs 'n' and the cost of a pen is Rs 'p'. Express the total cost of 10 note books and 15 pens algebraically. Ans: Cost of 10 N. Bks = 10n; Cost of 15 pens = 15p; Total Cost = 10n + 15p [1/2 + 1/2 + 1]	2
(4)	Construct angle $ABC = 90^\circ$ Ans: Base ray [1/2] ; 3 arcs [1] ; Completing and label ... [1/2]	2
(5)	A table cloth 9m long and 7m wide has to be stitched with 3 rounds of border. Find the length of the border required. Ans: Length of border required for 3 rounds = 3 x Perimeter = 3 x 2 x [9 + 7] = 6 x 16 = 96m [1/2 x 4]	2
(6)	Armaan divides Rs1200 as gift for his two children in the ratio 5 : 3. Find the amount each one gets. Ans: Share of 1st child = 5 / 8 x 1200 = 5 x 150 = Rs750 [1] Share of 2nd child = 3 / 8 x 1200 = 3 x 150 = Rs450 [1]	2
(7)	The number of children in 25 families of a colony is as given below: 2, 1, 2, 4, 2, 1, 3, 3, 1, 4, 2, 3, 4, 3, 1, 1, 1, 2, 2, 2, 2, 2, 1, 4, 4 Make a table and enter the data using tally marks. Ans: Each Frequency [1/2]	2

No. of Children	1	2	3	4
Frequency	7	9	4	5
Total				25

Q.NO	<u>SECTION 'C'– ('3' MARKS EACH) – TOTAL – 24 MARKS</u>	Marks
(8)	Find using Distributive Property: $375 \times 38 + 375 \times 61 + 375$ Ans: = 375 x 38 + 375 x 61 + 375 x 1 [1/2] = 375 x [38 + 61 + 1] = 375 x 100 = 37 500 [1 + 1 + 1/2]	3
(9)	Ankita bought 5Kg 75g of fruits, 3Kg 475g of vegetables and some pulses. If the total weight of the things she bought is 10Kg, find the weight of pulses. Express your answer in decimals. Ans: Statements [1/2] 5Kg 075g + 3Kg 475g = 8Kg 550g [1] 10Kg 000g – 8Kg 550g = 1Kg 450g [1] = 1.450Kg of Pulses [1/2] Either all values can be converted to decimal and calculate or only the final Ans can be converted to decimal.	3

Q.NO	<u>SECTION 'D' – ('4' MARKS EACH) – TOTAL – 24 MARKS</u>	Marks																
(18)	<p><i>Simplify:</i> $(-500) - (-380) + (-222) + 620$ Ans: $= -500 + 380 - 222 + 620 \dots [1]$ $= -722 + 1000 \dots [1 + 1] = +278 \dots [1]$</p>	4																
(19)	<p>Amit earns Rs40 000 a month. He spends Rs8 000 on rent, Rs15 000 on food and Rs6 000 on other expenses. Find the following ratios:</p> <p>a. Amt. spent on rent to Amt. spent on food Ans: $= 8000 : 15000 = 8 : 15 \dots [1/2 + 1/2]$</p> <p>b. Amt. spent on other expenses to his income Ans: $= 6000 : 40000 = 6 : 40 = 3 : 20 \dots [1/2 + 1/2]$</p> <p>c. His savings to his income Ans: His Savings $= 40000 - [8000 + 15000 + 6000] = 40000 - 29000 = 11000 \dots [1]$ Ratio $= 11000 : 40000 = 11 : 40 \dots [1/2 + 1/2]$</p>	4																
(20)	<p>Draw Seg. PQ = 5cm and Seg. RS = 4.5cm. Construct Seg. MN = 2PQ – RS Ans: Drawing Seg. PQ = 5cm and Seg. RS = 4.5cm $\dots [1 + 1]$ Constructing 2PQ – RS $\dots [1 + 1/2]$ Labeling $\dots [1/2]$</p>	4																
(21)	<p>The following table shows the number of pastries sold by a bakery during the 7 days of a particular week:</p> <table border="1" data-bbox="318 909 1317 1045"> <thead> <tr> <th>Day</th> <th>Mon</th> <th>Tues</th> <th>Wed</th> <th>Thurs</th> <th>Fri</th> <th>Sat</th> <th>Sun</th> </tr> </thead> <tbody> <tr> <td>No. of Pastries sold</td> <td>80</td> <td>65</td> <td>70</td> <td>50</td> <td>60</td> <td>90</td> <td>100</td> </tr> </tbody> </table> <p>Represent the above information by a bar-graph, taking scale of 1 unit = 10 pastries. Ans: Given scale 1 unit = 10 pastries \dots Marked correctly $\dots [1/2]$ Each Bar drawn correctly $\dots [1/2 \times 7]$</p>	Day	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	No. of Pastries sold	80	65	70	50	60	90	100	4
Day	Mon	Tues	Wed	Thurs	Fri	Sat	Sun											
No. of Pastries sold	80	65	70	50	60	90	100											