






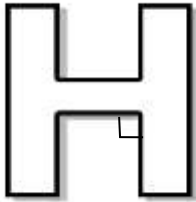
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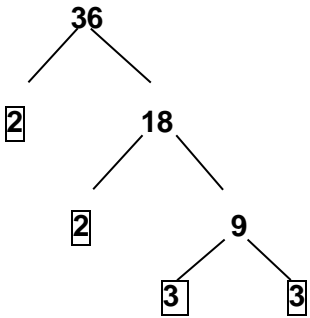
	INDIAN SCHOOL MUSCAT MIDDLE SECTION HALF YEARLY EXAMINATION 2019-20	
	<u>SUBJECT – MATHEMATICS- ANSWER KEY</u>	Code:MXM 02
CLASS 5		Time Allotted: 2 ½ hrs
.09.2019		Max .Marks: 80
General Instructions. 1.The question paper comprises of three sections A ,B, C and D . You have to attempt all the sections. 2.All the questions are compulsory . 3.All the answers should be written in the answer sheet provided.		

Q.NO1	<u>SECTION ‘A’-(‘1’ MARK EACH) – TOTAL – 20 MARKS</u>	Marks
	CHOOSE THE CORRECT ANSWER:	
(a)	The greatest factor of 75 is c) 75	1
(b)	The Hindu Arabic numeral for XLIX is b) 49	1
(c)	$\frac{25}{25}$ when reduced to lowest term is 1	1
(d)	256 can be obtained by 256 × 1	1
(e)	400 more than 50,348 = 50,748	1
	FILL IN THE BLANK:	
(f)	If C.P= Rs 4,190 and Profit = Rs 200, then the S.P = 4390	1
(g)	The cost of 5 pens is Rs 100 then the cost of 1 pen is Rs 20	1
(h)	4 lac = _____ thousands 400	1
(i)	The standard form of $80,000 + 500 + 20 + 9 =$ 80,529	1
(j)	$49 \times 0 \times 17 =$ 0	1
	TRUE OR FALSE:	
(k)	Angle MAT is a right angle. It's measure is 95° FALSE	1
(l)	The successor of 2099 is 2100 TRUE	1
(m)	The prime factorization of $12 = 3 \times 4$ FALSE	1
(n)	$23 \times 200 = 46000$ FALSE	1
(o)	S.P – C.P = Profit TRUE	1

	MATCH THE COLUMNS		
	A	B	
(p)	Acute angle (v)	i) 95°	1
(q)	$\frac{30}{5}$ (iii)	ii) 2	1
(r)	Even prime number (ii)	iii) 6	1
(s)	Obtuse angle (i)	iv) $\frac{8}{20}$	1
(t)	$\frac{2}{5}$ (iv)	v) 85°	1

Q.NO	<u>SECTION 'B'-('2' MARKS EACH) – TOTAL – 12 MARKS</u>	Marks
(2)	<p>Four pieces of ribbons measure 12 cm, 18 cm, 34 cm and 24 cm. Find the average length of ribbon pieces.</p> <p>Sum of quantities = $(12 + 18 + 34 + 24)$ cm = 88 cm $(\frac{1}{2})$</p> <p>No of quantities = 4 $(\frac{1}{2})$</p> <p>Average = $88 \text{ cm} \div 4 = 22 \text{ cm}$ $(\frac{1}{2} + \frac{1}{2})$</p>	2
(3)	<p>There were 45,750 pearls in a box. If 28,942 are fake, then how many were real pearls?</p> <p> No of pearls = 45,750 No of fake pearls = 28,942 </p> <p>$(\frac{1}{2})$</p> <p> No of real pearls = 45,750 – 28,942 16 808 </p> <p>$(\frac{1}{2} + \frac{1}{2})$</p>	2
(4)	<p>Check whether 4752 is divisible by 9. Use the divisibility rule</p> <p>Sum - $4 + 7 + 5 + 2 = 18$ $(1 + \frac{1}{2} + \frac{1}{2})$</p> <p>$18 \div 9 = 2$</p> <p>4752 is divisible by 9</p>	2
(5)	<p>a) Write the predecessor of 372,180 372,179 (1)</p> <p>b) Round 65,854 to the nearest 100 65,900 (1)</p>	2

(6)	<p>Name the type of angles that are marked: $(\frac{1}{2})$ each</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>a) acute</p> </div> <div style="text-align: center;">  <p>b) obtuse</p> </div> <div style="text-align: center;">  <p>c) straight</p> </div> <div style="text-align: center;">  <p>d) Right</p> </div> </div>	2
(7)	<p>Find the first four equivalent fractions of $\frac{3}{5}$ by multiplication. $(\frac{1}{2})$ each</p> <div style="display: flex; justify-content: space-around; align-items: center;"> $\frac{3}{5} \times \frac{2}{2} = \frac{6}{10}$ $\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$ $\frac{3}{5} \times \frac{4}{4} = \frac{12}{20}$ $\frac{3}{5} \times \frac{5}{5} = \frac{15}{25}$ </div>	2

Q.NO	<u>SECTION 'C'-('3' MARKS EACH) – TOTAL – 24 MARKS</u>	Marks
(8)	<p>Find the prime factors of 36 by constructing a factor tree. (each step 1)</p> <div style="text-align: center;">  </div>	3
(9)	<p>a. What is the place value of 7 in 4,79,384? 7- 70,000 (1)</p> <p>b. Arrange in descending order: 67,666 ; 76,666; 67,656; 76,066</p> <p style="text-align: center;">76,666 .> 76,066 > 67,666 > 67,656 $(\frac{1}{2})$ each</p>	3
(10)	<p>Mr Ali distributed 3850 English story books equally among 25 village schools. Find out how many books did each school get.</p>	3

	<p>Books distributed = 3850 } $(\frac{1}{2})$ No. of schools = 25 }</p> <p>No of books each school got = $3850 \div 25$ $(\frac{1}{2})$</p> <div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: right;"> $\begin{array}{r} 154 \\ 25 \overline{) 3850} \\ \underline{25} \\ 135 \\ \underline{125} \\ 100 \\ \underline{100} \\ 0 \end{array}$ </div> <div style="font-size: 4em; margin: 0 10px;">}</div> <div style="text-align: left;"> $(1\frac{1}{2})$ </div> </div> <p>Ans: Each school got 154 books $(\frac{1}{2})$</p>																															
(11)	<p>Find the HCF of 12, 14 and 20 by continued division method. (each step 1 mark)</p> <div style="text-align: center;"> <table border="1" style="margin: 0 auto;"> <tr><td>12</td><td>14</td><td>1</td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td>12</td><td></td></tr> <tr><td></td><td>2</td><td>12</td></tr> <tr><td></td><td></td><td>6</td></tr> <tr><td></td><td></td><td>12</td></tr> <tr><td></td><td></td><td>0</td></tr> </table> <p>(1)</p> </div> <div style="text-align: center; margin-top: 20px;"> <table border="1" style="margin: 0 auto;"> <tr><td>2</td><td>20</td><td>10</td></tr> <tr><td></td><td>20</td><td></td></tr> <tr><td></td><td>0</td><td></td></tr> </table> <p>(1)</p> </div>	12	14	1					12			2	12			6			12			0	2	20	10		20			0		3
12	14	1																														
	12																															
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2	20	10																														
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(12)	<p>Draw $\angle \text{TOP} = 70^\circ$. Name it's: a) vertex b) arms c) Type of angle</p> <p>Drawing and naming the angle $(1\frac{1}{2})$ Naming vertex, arms and type - $(1\frac{1}{2})$</p>	3																														
(13)	<p>Check whether 30402 is divisible by 6.</p> <p>By 2 \rightarrow <u>30402</u> even no \rightarrow divisible (1) By 3 \rightarrow $3 + 4 + 2 = 9 \rightarrow$ divisible (1)</p> <p>Ans: 30402 is divisible by 6 (1)</p>	3																														
(14)	<p>Ms Seema saves Rs 9,235 every month. How much will she save in 32 months?</p> <p>Money saved every month = 9,235 } No of months = 32 } $(\frac{1}{2})$</p>	3																														

	<div>Total amount saved = 9235 × 32 (1)</div> <div><table><tr><td>9235</td></tr><tr><td>× 32</td></tr><tr><td>18470</td></tr><tr><td>+ 277050</td></tr><tr><td>295520</td></tr><tr><td></td></tr></table><div>($\frac{1}{2}$) for each each step</div></div> <div>Ans: Seema saves Rs 2,95,520</div>	9235	× 32	18470	+ 277050	295520		
9235								
× 32								
18470								
+ 277050								
295520								
(15)	<div>Subtract 32479 from 85348. Check the answer by addition.</div> <div><table><tr><td>85348</td></tr><tr><td>- 32479</td></tr><tr><td>52869</td></tr></table><div>($1\frac{1}{2}$)</div></div> <div><div>Check</div><table><tr><td>52869</td></tr><tr><td>+32479</td></tr><tr><td>85348</td></tr></table><div>($1\frac{1}{2}$)</div></div>	85348	- 32479	52869	52869	+32479	85348	3
85348								
- 32479								
52869								
52869								
+32479								
85348								

Q.NO	SECTION 'D'-('4' MARKS EACH) – TOTAL – 24 MARKS	Marks																												
(16)	<p>Find the greatest number that divides 42 and 96 exactly.</p> <p>The greatest number is the HCF of 42 and 96</p> <table><tr><td>42</td><td>96</td><td>2</td><td>(1+1)</td></tr><tr><td></td><td>84</td><td></td><td></td></tr><tr><td>12</td><td>42</td><td>3</td><td>(1)</td></tr><tr><td></td><td>36</td><td></td><td></td></tr><tr><td>6</td><td>12</td><td>2</td><td>(1)</td></tr><tr><td></td><td>12</td><td></td><td></td></tr><tr><td></td><td>0</td><td></td><td></td></tr></table> <p>Ans: The greatest no that divides 42 and 96 exactly is 6</p>	42	96	2	(1+1)		84			12	42	3	(1)		36			6	12	2	(1)		12				0			4
42	96	2	(1+1)																											
	84																													
12	42	3	(1)																											
	36																													
6	12	2	(1)																											
	12																													
	0																													
(17)	<p>Insert commas appropriately and write 650942 in figures as well as in words both in Indian and International systems.</p> <p>Indian System: 6,50,942 ($\frac{1}{2}$)</p> <p>Six lakh, fifty thousand, nine hundred forty-two ($1\frac{1}{2}$)</p> <p>International System: 650,942 ($\frac{1}{2}$)</p>	4																												

	Six hundred fifty thousand nine hundred forty-two $(1\frac{1}{2})$															
(18)	<p>A train covers 828 km in 9 hours. What distance will it cover in 6 hours?</p> <p>Distance covered in: 9 hours = 828 km 1 hour = $828 \div 9$ (1)</p> <table><tr><td></td><td>9 2</td></tr><tr><td>9</td><td>828</td></tr><tr><td></td><td>81</td></tr><tr><td></td><td>18</td></tr><tr><td></td><td>18</td></tr><tr><td></td><td>0</td></tr></table> <p>(1 + 1)</p> <p>6 hours = $\frac{92 \times 6}{552}$ (1)</p> <p>Ans : The train covers 552 km in 6 hours</p>		9 2	9	828		81		18		18		0	4		
	9 2															
9	828															
	81															
	18															
	18															
	0															
(19)	<p>Arun bought a scooter for Rs 27,500. He spent Rs 2,500 on repairing and painting it. He then sold it for Rs 32,000. Find his profit or Loss.</p> <p>C.P = Rs 27,500 Overheads = Rs 2,500 Total C. P = <u>Rs 30,000</u> (1 + 1)</p> <p>S.P = Rs 32,000 Total C. P = Rs 30,000</p> <p>S.P > C.P \longrightarrow Profit</p> <p>Profit = Rs 32,000 – Rs 30,000 = Rs 2,000 (1 + 1)</p>	4														
(20)	<p>Find the LCM of 18, 9 and 16 by the division method. Each step $(\frac{1}{2})$</p> <table><tr><td>2</td><td>18, 9, 16</td></tr><tr><td>2</td><td>9, 9, 8</td></tr><tr><td>2</td><td>9, 9, 4</td></tr><tr><td>2</td><td>9, 9, 2</td></tr><tr><td>3</td><td>9, 9, 1</td></tr><tr><td>3</td><td>3, 3, 1</td></tr><tr><td></td><td>1, 1, 1</td></tr></table> <p>LCM = $2 \times 2 \times 2 \times 2 \times 3 \times 3$ = 144</p>	2	18, 9, 16	2	9, 9, 8	2	9, 9, 4	2	9, 9, 2	3	9, 9, 1	3	3, 3, 1		1, 1, 1	4
2	18, 9, 16															
2	9, 9, 8															
2	9, 9, 4															
2	9, 9, 2															
3	9, 9, 1															
3	3, 3, 1															
	1, 1, 1															

(21)	<p>A company manufactures umbrellas. It produced 82,440 at Delhi factory, 1, 26,167 at Mumbai factory and 90,593 at Bangalore factory last year. How many umbrellas were produced in all?</p> <p>Umbrellas produced at:</p> <table> <tr> <td>Delhi →</td><td>82 440</td><td rowspan="4">(Statements (1), arranging (1), and sum (2)</td></tr> <tr> <td>Mumbai →</td><td>1 26 167</td></tr> <tr> <td>Bangalore →</td><td><u>90 593</u></td></tr> <tr> <td>Total →</td><td><u>2 99 200</u></td></tr> </table>	Delhi →	82 440	(Statements (1), arranging (1), and sum (2)	Mumbai →	1 26 167	Bangalore →	<u>90 593</u>	Total →	<u>2 99 200</u>	4
Delhi →	82 440	(Statements (1), arranging (1), and sum (2)									
Mumbai →	1 26 167										
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Total →	<u>2 99 200</u>										

End of the question paper.