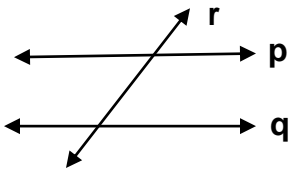
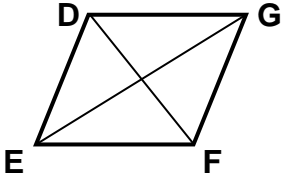


**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
DEPARTMENT OF MATHEMATICS
STD 6 (ANSWER KEY) 2018-19**

Qns		
SECTION A		
1.	Find the sum of the place values of 5's in 65,459	5050
2.	Find the number of whole numbers between 23 and 55	31
3.	If the radius of a circle is 3cm, then what is the length of each diameter?	6cm
4.	What is the HCF of 15 and 16?	1
5.	What is the name of the angle that measures exactly 180° ?	Straight angle
6.	Write the prime numbers between 18 and 24.	19, 23
SECTION B		
7.	Insert commas suitably and write the number name of 56943102 in Indian system of numeration. 5,69,43,102 – Five crore sixty- nine lakh forty-three thousand one hundred two	
8.	Find the greatest and the smallest numbers that can be formed by using the digits 9, 0, 2, 5, 7, 4 each only once GREATEST NUMBER – 975420 SMALLEST NUMBER - 204579	
9.	Find the value using suitable property : $2479 \times 143 - 2479 \times 43$ $2479 \times (143 - 43) = 2479 \times (100) = 47900$	
10.	Which direction will you face if you start facing - i) South and make $\frac{3}{4}$ of a revolution clockwise? East ii) East and make $\frac{1}{4}$ of a revolution anticlockwise? North	
11.	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>From the given figure, name the following:</p> <p>i) A pair of intersecting lines line r & line p (or) line r & line q</p> <p>ii) A pair of parallel lines line p & line q</p> </div> </div>	
12.	Find the prime factorization of 144 <div style="text-align: right; margin-top: 10px;"> $\begin{array}{r} 2 \overline{)144} \\ \underline{2 } \\ 2 \overline{)72} \\ \underline{2 } \\ 2 \overline{)36} \\ \underline{2 } \\ 2 \overline{)18} \\ \underline{3 } \\ 3 \overline{)9} \\ \underline{3 } \\ 3 \overline{)3} \\ \underline{1} \end{array}$ </div> <p style="margin-top: 10px;">$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$</p>	
13.	Estimate $(5644 + 1789)$ by rounding off each number to its nearest 100 5644 rounded off to nearest 100 - 5600 1789 rounded off to nearest 100 - 1800 <div style="text-align: right;">Sum - 7400</div>	

14.	<p>The weight of each gas cylinder is 21kg 270g. Find the weight of 34 such cylinders.</p> <p>The weight of 1 gas cylinder 21kg 270g The weight of 34 gas cylinders 21.270</p> $ \begin{array}{r} \times 34 \\ 85080 \\ \hline 638100 \\ \hline 723180 \end{array} $ <p>The weight of 34 gas cylinders = 723 kg 180 g</p>		
15.	<p>Find the sum of (409 + 168 + 591 + 432) by suitable rearrangement.</p> <p>(409 + 168 + 591 + 432) = 409 + 591 + 168 + 432 = 1000 + 600 = 1600</p>		
16.	<div style="display: flex; align-items: center;">  <div> <p>In the given quadrilateral DEFG, name–</p> <p>a) a pair of opposite sides DG, EF (or) DE, FG</p> <p>b) a pair of opposite angles $\angle D$, $\angle F$ (or) $\angle G$, $\angle E$</p> <p>c) the two diagonals DF, EG</p> </div> </div>		
17.	<p>Using divisibility test, determine if 56248 is divisible by 8 (Show the working)</p> <p>Rule: The number formed by the last 3 digits should be divisible by 8</p> <p>Division of $248 \div 8 = 31$ 248 is divisible by 8 So 56248 is divisible by 8</p>		
18.	<p>The numbers of students from three sections of class VI are 32, 36, and 40. Find the minimum number of books required for their class library so that they can be equally distributed among the students of three sections.</p> $ \begin{array}{r} 2 \overline{) 32, 36, 40} \\ 2 \overline{) 16, 18, 20} \\ 2 \overline{) 8, 9, 10} \\ 2 \overline{) 4, 9, 5} \\ 2 \overline{) 2, 9, 5} \\ 5 \overline{) 1, 9, 5} \\ 3 \overline{) 1, 9, 1} \\ 3 \overline{) 1, 3, 1} \\ \hline 1, 1, 1 \end{array} $ <p>Minimum number of books required = $2 \times 2 \times 2 \times 2 \times 5 \times 3 \times 3$ = $4 \times 4 \times 10 \times 9$ = $16 \times 90 = 1440$</p> <p>So minimum number of books required = 1440</p>		
19.	<p>Find the product of (125 × 50 × 8 × 7) by suitable rearrangement.</p> <p>$125 \times 8 \times 50 \times 7 = 1000 \times 350 = 3,50,000$</p>		
20.	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Find the HCF of 12, 18, 48 by continuous division method</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> $\begin{array}{r} 12 \overline{) 18} \quad (1 \quad \frac{1}{2} M \\ \underline{12} \\ 6 \overline{) 12} \quad (2 \quad \frac{1}{2} M \\ \underline{12} \\ 0 \end{array}$ <p>HCF = 6 $\frac{1}{2} M$</p> </td> <td style="width: 50%; vertical-align: top; border-left: 1px solid black; padding-left: 10px;"> $\begin{array}{r} 6 \overline{) 48} \quad (8 \\ \underline{48} \\ 0 \end{array}$ <p>HCF of 12, 18, 48 is 6</p> </td> </tr> </table> </div> </div>	$ \begin{array}{r} 12 \overline{) 18} \quad (1 \quad \frac{1}{2} M \\ \underline{12} \\ 6 \overline{) 12} \quad (2 \quad \frac{1}{2} M \\ \underline{12} \\ 0 \end{array} $ <p>HCF = 6 $\frac{1}{2} M$</p>	$ \begin{array}{r} 6 \overline{) 48} \quad (8 \\ \underline{48} \\ 0 \end{array} $ <p>HCF of 12, 18, 48 is 6</p>
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28.	Find the value using suitable property: 245×1006 $245 \times 1006 = 245 (1000 + 6)$ Distributive property $= 245 \times 1000 + 245 \times 6$ $= 245000 + 1470$ $= 246470$
29.	Find the least number which when divided by 12, 15, 18 leaves remainder 10 in each case <div style="text-align: center;"> $\begin{array}{r l} 2 & 12, 15, 18 \\ 2 & 6, 15, 9 \\ 3 & 3, 15, 9 \\ 3 & 1, 5, 3 \\ 5 & 1, 5, 1 \\ & 1, 1, 1 \end{array}$ </div> <p>LCM = $2 \times 2 \times 3 \times 3 \times 5 = 4 \times 9 \times 5 = 36 \times 5 = 180$</p> <p>Least number when divided by 12,15,18 and leaves 10 as remainder = $180 + 10 = 190$</p>
30.	Draw a circle of any radius and mark the following <div style="display: flex; justify-content: space-between;"> <div> i) centre O iv) a chord AB </div> <div> ii) a radius OP v) an arc RS </div> <div> iii) A point S in its interior vi) shade a segment </div> </div>