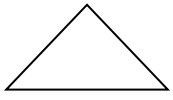
INDIAN SCHOOL MUSCAT
MIDDLE SECTION
FIRST TERM EXAMINATION 2018-19

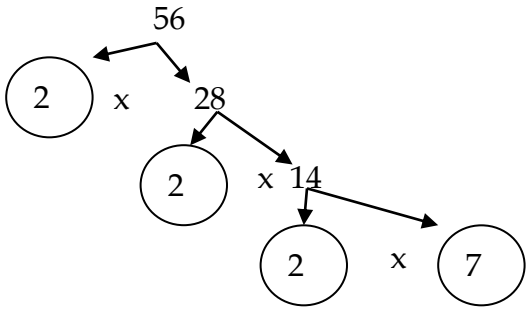
SUBJECT – MATHEMATICS – ANSWER KEY

SECTION A		
Qns.		
1(a)	**The composite numbers between 20 and 30 are *21,22,24,25,26,27,28,***	
1(b)	**If Dividend = 3697, divisor = 100,then Quotient = *36* and Remainder = *97***	
1(c)	**The lowest form of $\frac{7}{28}$ is $\frac{1}{4}$**	
1(d)	**The successor of 5 16 019 is *5 16 020***	
1(e)	**7 63 958 + 2 48 164 = 2 48 164 + *7 63 958***	
MATCH THE FOLLOWING		
	COLUMN A	**COLUMN B**
1(f)	**Product of 5389 and 100 = _____**	**(iii) 538900**
1(g)	**Roman numeral for 72 is ____**	**(iv) LXXII**
1(h)	**Measure of a Straight angle = _____**	**(v) 180˚**
1(i)	**HCF of 5 and 11 is _____**	**(ii) 1**
1(j)	**Measure of an acute angle is**	**(i) 24˚**

S.NO	SECTION – B (Q.NO. 2 TO 6) (‘2’ MARKS EACH)
2	***Write four equivalent fractions for*** $\frac{3}{5}$ $\frac{6}{10}$ $\frac{9}{15}$ $\frac{12}{20}$ $\frac{15}{25}$
3	***Rachel sold her camera for ₹2980.50 and made a profit of ₹150.50. At what price she had bought the camera?*** **Selling Price = ₹2980.50** **Profit = ₹150.50**
	Cost Price = S.P – Profit **₹ 2980.50** **- ₹ 150.50** **₹ 2830.00** **Ans: Rachel bought the camera for ₹ 2 830**

4	***Identify the type of the following measures of angles:*** **(a) 75˚ - Acute angle (b) 0˚ - Zero angle** **(c) 268˚- Reflex angle (d) 360˚ - Complete angle**
5	***The product of two numbers is 3556. If one of them is 14 find the other number?*** **Other number = Product ÷ One number** **= 3556 ÷ 14**
	0 2 5 4 **14) 3 5 5 6** **- 2 8** **7 5** **- 7 0** **5 6** **- 5 6** **0**
6	***Find the first two common multiples of 6 and 9?***
	Multiples of 6: 6, 12, 18, 24, 30, …….
	Multiples of 9: 9, 18, 27,……..
	First Common Multiple: 18
	Ans: First four common multiples are **18 x 1 = 18 ; 18 x 2 = 36**
S.NO	**SECTION – C (Q.NO. 7 TO 14) ('3' MARKS EACH)**
7.	***Check if the fractions are equivalent:*** $\frac{20}{25}$ **and** $\frac{16}{100}$
	$\frac{20}{25}$ **;** $\frac{16}{100}$ **20 X 100 = 2000** **25 X 16 = 400**
	2000 ≠ 400 **Ans: No.** $\frac{20}{25}$ **and** $\frac{16}{100}$ **are not equivalent.**
8.	***Insert commas and write the number name of 74065394 in Indian system and International system of numeration.***
	Indian system of numeration: **7,40,65,394** **Seven crore forty lakh sixty five thousand three hundred ninety four**
	International system of numeration**: 74,065,394** **Seventy four million sixty five thousand three hundred ninety four**
9.	***Find the number of angles and identify its type in the following shapes:*** **a)**  **b)** 
	a) Number of angles: 4 ; Type of the angles: Right angle
	b) Number of angles: 3 ; Type of the angles: Acute angle

10.	***Shreya bought a Refrigerator for ₹ 48 607, a TV for ₹ 1 00 400, a dining table set for ₹ 72 680 and a sofa set for ₹ 2300 Find the total amount Shreya spent?***
	Cost of Refrigerator = ₹ 48 607 **Cost of TV = ₹ 1 00 400** **Cost of dining table = ₹ 72 680** **Cost of sofa set =+ ₹ 2 300** **Total amount = ₹ 2 23 987** **Ans: Shreya spent ₹ 2 23 987 in all.**
11.	***Verify whether 7394 is divisible by 6 (use divisibility rule)***
	7394 → even number; **7394 is divisible by 2**
	Sum of the digits: 7 + 3 + 9 + 4 = 23 → is not divisible by 3 **7394 is not divisible by 3**
	Ans: 7394 is not divisible by 6
12.	***Write in descending order*:** **4 04 568 ; 4 40 593 ; 4 40 953 ; 4 04 100 ; 4 04 658**
	4 40 953 > 4 40 593 > 4 04 658 > 4 04 568 > 4 04 100
13.	**The weight of 5 students are 35 kg, 20 kg, 40 kg , 25 kg , 30 kg. Find the average weight?**
	Sum = 35 + 20 + 40 + 25 + 30 = 150
	Average = 150 ÷ 5 = 30
14.	***Draw the factor tree for 56.***

	 Prime factorization of 56 = 2 x 2 x 2 x 7
S.NO	***SECTION D (Q.NO. 15 TO 23) ('4' MARKS EACH)***
15.	**Draw /XYZ = 110˚ using protractor. Identify its Type, Vertex and Arms.**
	Drawing ray YZ
	Constructing /XYZ = 110˚
	Naming the angle
	Identification: Type: Obtuse angle → → **Vertex: Point Y Arms: YZ ; YX**
16.	**2198 flowers are there in a basket. What is the total number of flowers in 125 such baskets?**

	1 basket = 2198 flowers **125 baskets = 125 x 2198**
	2 1 9 8 **X 1 2 5** **1 0 9 9 0** **4 3 9 6 0** **+ 2 1 9 8 0 0** **2 7 4 7 5 0** **Ans: Total number of flowers in 125 baskets = 2,74,750**
17.	**a) Write the smallest and greatest 5-digit number using the digits 7, 4, 0, 2, 8** **Tth Th H T O** **Smallest 5-digit number: 2 0, 4 7 8** **Biggest 5-digit number: 8 7, 4 2 0**
	b) Round off 9547 to the nearest 100. Ans: 9,500
	c) Write the expanded form of 8 19 547 **Expanded form: 8 00 000 + 10 000 + 9 000 + 500 + 40 + 7**
18.	**Find the smallest number which is exactly divisible by 15, 20, 30**
	The smallest number which is exactly divisible by 15, 20 and 30 is the LCM Of 15, 20 and 30 **2 | 15 , 20, 30** **2 | 15, 10, 15** **3 | 15, 05, 15** **5 | 05, 05, 05** **1 1 1** **LCM of 15, 20 and 30 = 2 x 2 x 3 x 5 = 60** **The smallest number which is exactly divisible by 15, 20, 30 = 60**
19.	**In an examination 70 381 boys and 42 954 girls appeared.** **a) How many students appeared in all for the examination?** **b) How many more boys appeared for the examination than the girls?**
	a) Identification : Addition **Boys = 7 0 3 8 1** **Girls = + 4 2 9 5 4** **Total = 1 1 3 3 3 5** **Ans: 1 13 335 students appeared for the examination**
	b) Identification: Subtraction **Boys = 7 0 3 8 1** **Girls = - 4 2 9 5 4** **2 7 4 2 7 Ans: 27 427 more boys appeared for the examination.**
20.	**594 toffees are packed in 11 packets. Find the number of toffees packed in 16 such packets?**
	Step 1: 11 packets = 594 toffees **1 packet = 594 ÷ 11** **= 54 toffees**
	Step 2: 1 packet = 54 toffees **16 packets = 16 x 54** **5 4** **X 1 6** **3 2 4** **+ 5 4 0** **8 6 4** **Ans: 864 toffees**

21.

Reduce the fraction $\frac{48}{92}$ to the lowest term by dividing the numerator and denominator by their HCF

HCF OF 48 and 92

```
48 ) 9 2 ( 1
   - 4 8
     4  4 ) 4 8 ( 1
        - 4 4
            4) 4 4 ( 11
            - 4 4
              0        HCF = 4
```

$\frac{48}{92} \div \frac{4}{4} = \frac{12}{23}$ **Lowest term of** $\frac{48}{92} = \frac{12}{23}$

22.

Find the HCF of 12, 18 and 72

Step 1: HCF Of 12 and 18

```
12 ) 1 8 ( 1
   - 1 2
     0 6 ) 1 2 ( 2
         - 1 2
           0          HCF Of 12 and 18 = 6
```

Step 2: HCF of 6 and 72

```
6 ) 7 2 ( 1 2
  - 7 2
    0 0        HCF = 6
```

Ans: HCF OF 12, 18 and 72 = 6

23.

Ram bought a car for ₹ 2 00 600 and paid ₹ 3 000 for repairing it. Then he sold it for ₹ 5 00 500. Find his profir or loss?

Cost price of the car = ₹ 2 00 600
Over heads = ₹ 3 000
Selling price = ₹ 5 00 500

Total Cost Price = C.P + Overheads

```
  ₹ 2 0 0 6 0 0
+ ₹     3 0 0 0
  ₹ 2 0 3 6 0 0
```

Total Cost Price is less than Selling Price → Profit
Profit = S.P – Total C.P

```
  ₹ 5 0 0 5 0 0
- ₹ 2 0 3 6 0 0
  ₹ 2 9 6 9 0 0
```

Ans: Ram made a profit of ₹ 2 96 900