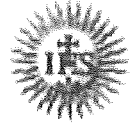# ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution
SECOND TERM EXAMINATION – 2019
CLASS –VI

SUBJECT – ARITHMETIC

TIME – 2 HRS 30 MINS

ANSWER KEY

F.M.- 80

DATE -05.08.19

Group – A

I. Multiple choice questions : (Select the correct option) 1 X 5=5

1. Which of the following is not an improper fraction

   a) $\frac{23}{20}$ b) $6\frac{3}{8}$ **c)** $\frac{19}{21}$ d) $\frac{26}{25}$

2. Which of the following is the smallest

   a) $\frac{7}{9}$ of 27   b) $\frac{1}{4}$ of 40   c) $\frac{5}{7}$ of 63   **d)** $\frac{1}{6}$ **of 54**

3. To change grams into kilograms we divide by

   a) 100   b) 10   **c) 1000**   d) 10000.

4. A cricket pitch is about 264cm wide. In metres it is equal to

   a) 26.4m   **b) 2.64m**   c) 0.264m   d) 0.0264m

5. Which of the following is not a prime number

   a) 11   **b) 21**   c) 31   d) 41.

II. Fill in the blanks: 1 X 10 =10

1. Two numbers only 1 as a common factor are called __**co-prime**_____numbers.
2. The smallest prime number is _**2**___ which is the only _**even**___prime number.
3. 7.38 X 10 = __**73.8**_____
4. $\frac{3}{8}$ = 36/**96**
5. **1**__ is the factor of all natural numbers.
6. Every multiple of a number is greater than or equal to the **number**_____.
7. 68 ÷ 10 = _**6.8**____
8. Express 75 paise into rupees __**Rs.0.75**____.
9. Express 18cm as metres __**0.18**_____.

III. Write T for True and F for False Statements :   1 X 10 = 10

1. All numbers which are divisible by 4 may not be divisible by 8.**true**
2. A number is divisible by 8 . if it is divisible by both 3 and 6.**false**
3. All numbers divisible by 5 are also divisible by 10.**false**
4. Any two consecutive numbers are co-prime.**true**
5. 1 is the smallest odd prime number.**false**

6. All whole numbers are integers.**true**
7. The sum of two negative integers is always a positive integer.**false**
8. The pair of number (31,33) is an example of twin prime.**false**
9. If the sum of the digits of a number is divisible by 3 , then the number itself is divisible by 9.**false**
10. Product of two numbers = HCF X LCM (Of those two numbers)**true**

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GROUP-B

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A. Answer the following questions:
   2×4=8

1. Convert the following into a mixed number: (345/14)
Ans. **24(9/14)**

2. Simplify: -18× -14× -12
Ans. **-3024**

3. Find the value of : 20.202÷74
Ans. **0.273**

4. Find the L.C.M of 56,150 and 200
Ans. **4200 (any method is applicable)**

B. Answer the following questions: (any four)

4×3=12

   1. Find the H.C.F of the following by continued division method: 136 and 640
   Ans. **8**

   2. Subtract 0.00096 from 0.07
   Ans. **0.06904**

   3. Simplify: (1/8 +3/10)-1/4
   Ans. **7/40 or 0.175**

   4. Write the prime factorisation of 28
   Ans. **2×2×7**

   5. Simplify: [-22+(-8)]÷6
   Ans. **-30/6=-5**

   6. Find the product : (-4)×(-5)×(-8)×(-15)
   Ans. **2400**

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GROUP – C

Answer the following questions (any 7)   [5x7=35]

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1. (a) Simplify: 5 – [3 – {6 – (5 – 4 – 3)}]
   Ans. 5-[3-{6-(-2)}]=5-[3-8]=5+5=**10**

   (b) Simplify: $\left(\frac{1}{2} + \frac{1}{3}\right) \div 1\frac{5}{6} \times 11 - 3\frac{1}{2}$

Ans. 5/6÷11/6×11-7/2=5/6×6/11×11-7/2=5-7/2=3/2=**1(1/2)**

2. (a) What is the cost of a dress, if $\frac{8}{9}$ of the cost of the dress equals Rs. 2400?

   Ans. Let the total cost of the dress is 1.

   If 8/9=2400 or,1=2400×9/8= **Rs.2700**

   (b)Raman works for $6\frac{1}{2}$ hours a day. IF he works for $\frac{2}{5}$ of the total time in the morning, for how many hours is he working in the afternoon?

   Ans. Raman works for 13/2 hours a day.

   2/5 of the total time =13/2×2/5=(13/5)hr

   Working hr in the afternoon is=(13/2)-(13/5)=39/10=**3(9/10)hr**

3.a) Subtract: 87.00392 from 305.48

   Ans. **218.47608**

   b) The distance between Dhruv's office and home is 7 km 5 m. He walks 1 km 125 m to the metro station A. The distance travelled by metro to metro station B is 4 km 65 m. What distance does he have to walk from the metro station B to the office? Give your answer in kilometres.

   Ans. Total distance travelled by Dhruv upto station B=(1.125+4.065)km=5.19km

   Distance left =(7.005-5.19)km=**1.815km**

   4. (a) Find the product : 0.0085 x 91.6=**0.7786**
   b) Ayush weighs 32.95 kg. His father is 2.3 times heavier than him. What is his father's weight?

   Ans. Father's weight=32.95×2.3=**75.785kg**

5. (a) Divide: 0.622454 by 3.46=**0.1799**

   (b) Bamboo is one of the fastest growing plants on Earth. In Japan a bamboo plant grew 45.6 inches in 1 day. What was the average growth of this plant per hour?

   Ans. 1day=24hr. so average growth per hr=45.6/24=**1.9inches**

6. 5 + 56 ÷ {42 ÷ (1 + 2) x 2} + 13
   Ans. 5+56÷{42÷3×2}+13=5+56÷{14×2}+13=5+56÷28+13=5+2+13=**20**

7. Find the H.C.F of 84, 98 and 138 using prime factorization method. **Ans. 2**

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Find the H.C.F. of 1078 and 1463 by continued division method. **Ans.77**

8. Find the L.C.M. of 42, 63 and 140 using prime factorisation method. **Ans. 1260**

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Find the L.C.M. of 72, 120, 150 and 135 using division method. **Ans. 5400**