



Sub: Arithmetic

Class: VI

F. M: 80

Duration: 2.5 hours

Date: 28.04.18

### Group - A

Answer all questions.

#### A. Multiple Choice Questions:

[1X5 = 5]

1. Which of the following is the smallest 7-digit number having four different digits?

- a. 1002300
- b. 1000032
- c. 1000023
- d. 1230000

2. If the product of two whole number is 1, then

- a. One of them is necessarily is 1.
- b. Both of them are 1.
- c. One of the number can be zero.
- d. Both of them are not necessarily 1.

3. What must 823 be multiplied by to give 82,38,230?

- a. 10100
- b. 10010
- c. 1010
- d. 11000

4. Which expression has the greatest quotient?

- a.  $-20 \div (-5)$
- b.  $-20 \div 5$
- c.  $20 \div (-4)$
- d.  $20 \div 4$

5.  $|-6| - |-6|$  equal

- a. 12
- b. -12
- c. 6
- d. 0

#### B. Fill in the blanks.

[1X5 = 5]

1. Use estimation to compare with  $<$  or  $>$ .  $732 - 284$  \_\_\_  $1735 - 1029$
2. A whole number remain unchanged when multiplied by \_\_\_\_\_
3. Number of integers between -4 and 2 is \_\_\_\_\_.
4.  $(-12) +$  \_\_\_\_\_  $= (-25)$ .
5.  $10000 -$  \_\_\_\_\_  $= 7235$ .

**C. State True or False.**

[1X5 = 5]

1. Estimated sum :  $765 + 313 = 1050$
2. The successor of 89989 is 89988
3. Sum of two whole numbers is always less than their product.
4. If  $(-27) + \square = (+11)$ , then  $\square = (+38)$ .
5. The product of three negative numbers is a positive number.

**Group - B**

**D. Simplify:**

[2X 5 = 10]

1. Round off and simplify:  $1678 + 2051 + 1356$
2.  $|16-4| \div |-3|$
3.  $-68 \div (-17)$
4.  $20000 - 9999$
5.  $(-18) \times (-14) \times (-12)$ .

**E. Answer any five:**

[3X 5 = 15]

1. Arrange the numbers from the largest to smallest, and find the sum.  
 $6,90,672; 6,09,762; 8,95,072; 9,07,652$
2. Convert 800km250m45cm into cm.
3. Write the number in 888,999,998 in the Indian system of numeration and in words.
4. On dividing a certain number by 126, the quotient is 15 and the remainder is 4. Find the number.
5. Estimate the product and verify by actual calculation:  $702 \times 65$
6. Add:  $(1000) + (-1998) + (+498) + (-500)$
7. Simplify:  $4 - \{7 + (-8) \div 4\}$

**Group - C**

**F. Answer any eight (8).**

[8X 5= 40]

1. Write in numerals and words the largest 8-digit number having four different digits in Indian and International system of numeration.
2. Divide 23890764 by 1985 and find the quotient and remainder.
3. The students of class VI of a school collected Rs. 5,68,750 for Prime Minister's Relief Fund. If Rs. 350, was contributed by each child, how many children are there in the school?



# ST. LAWRENCE HIGH SCHOOL



## 1st Term - 2018

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**Answer all questions.**

#### **A. Multiple Choice Questions:**

**[1X5 = 5]**

1. Which of the following is the smallest 7-digit number having four different digits?

- a. 1002300
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- c. **1000023**
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2. If the product of two whole number is 1, then

- a. One of them is necessarily is 1.
- b. **Both of them are 1.**
- c. One of the numbers can be zero.
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3. What must 823 be multiplied by to give 82,38,230?

- a. 10100
- b. **10010**
- c. 1010
- d. 11000

4. Which expression has the greatest quotient?

- a.  $-20 \div (-5)$
- b.  $-20 \div 5$
- c.  $20 \div (-4)$
- d.  **$20 \div 4$**

5.  $|-6| - |-6|$  equal

- a. 12
- b. -12
- c. 6
- d. **0**

#### **B. Fill in the blanks.**

**[1X5 = 5]**

1. Use estimation to compare with  $<$  or  $>$ .  $732 - 284$   $<$   $1735 - 1029$

2. A whole number remain unchanged when multiplied by 1.

3. Number of integers between -4 and 2 is 5.

4.  $(-12) +$   $(-13)$   $= (-25)$ .

5.  $10000 -$   $2,765$   $= 7235$ .

**C. State True or False.**

**[1X5 = 5]**

1. Estimated sum :  $765 + 313 = 1050$

Estimated:  $765 \rightarrow 800$

Estimated:  $313 \rightarrow 300$

So,  $800+300 = 1100$

Ans: False

2. The successor of 89989 is 89988

Ans: True

3. Sum of two whole numbers is always less than their product.

Ans: False

4. If  $(-27) + \square = (+11)$ , then  $\square = (+38)$ .

Ans:  $-27 + 38 = + 11$  True

5. The product of three negative numbers is a positive number.

Ans: False

**Group - B**

**D. Simplify:**

**[2X 5 = 10]**

1. Round off and simplify:  $1678 + 2051 + 1356$

Round Off:  $1678 \rightarrow 1680$

$2051 \rightarrow 2050$

$1356 \rightarrow 1355$

$1680+2050+1355 = 5085$

2.  $4 \times 197 \times 25 = 19700$

3.  $|16-4| \div |-2| = 12/2 = 6$

4.  $(-45 \div -3) + (-8) = 15-8 = 7$

5.  $(-18) \times (-14) \times (-12) = - 3024$

**E. Answer any five:**

**[3X 5 = 15]**

1. Arrange the numbers from the largest to smallest, and find the sum.

$6,90,672; 6,09,762; 8,95,072; 9,07,652$

Ans:  $6,09,762+6,90,672+8,95,072+9,07,652 = 3,103,158$

2. Convert 800km250m45cm into cm.

Ans:  $(800 \times 100000) + (250 \times 100) + 45 = 80025045$  cm

3. Write the number in 888,999,998 in the Indian system of numeration and in words.  
Ans: Indian system: 88,89,99,998; Eighty-eight crore eighty-nine lakh ninety-nine thousand nine hundred ninety-eight.
4. On dividing a certain number by 126, the quotient is 15 and the remainder is 4. Find the number.  
Ans: Dividend =  $126 \times 15 + 4 = 1894$
5. Estimate the product and verify by actual calculation:  $702 \times 65$   
Ans: After estimation:  $702 \rightarrow 700$  and  $65 \rightarrow 70$   
Therefore,  $700 \times 70 = 49,000$
6. Add:  $(1000) + (-1998) + (+498) + (-500)$   
Ans: -1000
7. Simplify:  $4 - \{7 + (-8) \div 4\}$   
Ans:  $4 - \{7 - 2\} = 4 - 5 = -1$

### Group - C

#### F. Answer any eight (8).

**[8X 5= 40]**

1. Write in numerals and words the largest 8-digit number having four different digits in Indian and International system of numeration.  
Indian system: 9,99,99,876 – Nine crore ninety-nine lakh ninety-nine thousand eight hundred and seventy six  
International system: 99,999,876 – Ninety-nine million, nine hundred ninety-nine thousand eight hundred seventy-six
2. Divide 23890764 by 1985 and find the quotient and remainder.  
Ans: Quotient = 12,035  
Reminder =  $23890764 - 23889475 = 1289$
3. The students of class VI of a school collected Rs. 5,68,750 for Prime Minister's Relief Fund. If Rs. 350, was contributed by each child, how many children are there in the school?  
Ans: Total amount collected for Prime Minister's Relief Fund = Rs. 5,68,750  
If each student contributed Rs. 350, then number of children in the school is  $5,68,750 / 350 = 1625$ . Ans
4. I am 5-digit number. My ones digit is 3. My hundreds digit is 2 times my ones digit. My tens digit is the sum of ones digit and hundreds digit. My thousands and ten thousands digit is one less than the hundreds digit. Write the number and its successor.

Ans:

The number is

5	5	6	9	3
Tth	TH	H	T	O

$$\text{Successor} = 55693 + 1 = 55694$$

5. Give the estimation to the nearest ten, hundred and thousand of 7852 and 435.  
435  $\rightarrow$  440(nearest ten) 400(nearest hundred)  
7852  $\rightarrow$  7850 (nearest ten); 7900 (nearest hundred); 8000(nearest thousand)
6. Explain the distributive property of multiplication over addition and subtraction using an example.

Ans: Distributive property of multiplication over addition

If a, b and c are three whole numbers, then

$$a \times (b + c) = (a \times b) + (a \times c) \text{ and } (b+c) \times a = (b \times a) + (c \times a)$$

Distributive property of multiplication over subtraction

If a, b and c are three whole numbers, and  $b > c$ , then

$$a \times (b - c) = (a \times b) - (a \times c) \text{ and } (b - c) \times a = (b \times a) - (c \times a)$$

7. A loading tempo can carry 482 boxes of biscuits weighing 15 kg each, whereas a van can carry 518 boxes each of the same weight. Find the total weight that can be carried by both the vehicles?

Ans: Loaded tempo carries  $482 \times 15 = 7230$  kg

Van can carry:  $518 \times 15 = 7770$ kg

Therefore, total weight =  $7230 + 7770 = 15000$  kg

8. Simplify: 73 of  $[85 - \{6 \times 7 + (23 - 4) \text{ of } (-5)\}]$

$$73 \text{ of } [85 - \{6 \times 7 + (19) \text{ of } (-5)\}]$$

$$\rightarrow 73 \text{ of } [85 - \{42 - 95\}]$$

$$\rightarrow 73 \text{ of } [85 - (-53)]$$

$$\rightarrow 73 \times 138 = 10074$$

9. The temperature on a February morning is  $-6^\circ$  C celsius at 6 a.m. If the temperature drops 3 degrees by 7 a.m. rises 4 degrees between 7 a.m. and 8 a.m. and then drops 7 degrees between 8 a.m. and 9 a.m. Find the temperature at 9 a.m?

Ans:  $-6 - 3 + 4 - 7 = -12^\circ$  C

10. Using the number line write the integer which is

(a) 6 more than -11

(b) 4 less than -2

a)  $-11 + 6 = -5$

(b)  $-2 - 4 = -6$

4. I am 5-digit number. My ones digit is 3. My hundreds digit is 2 times my ones digit. My tens digit is the sum of ones digit and hundreds digit. My thousands and ten thousands digit is one less than the hundreds digit. Write the number and its successor.
5. Give the estimation to the nearest ten, hundred and thousand of 7852 and 435.
6. Explain the distributive property of multiplication over addition and subtraction using an example.
7. A loading tempo can carry 482 boxes of biscuits weighing 15 kg each, whereas a van can carry 518 boxes each of the same weight. Find the total weight that can be carried by both the vehicles?
8. Simplify:  $73 \text{ of } [85 - \{6 \times 7 + (23 - 4) \text{ of } (-5)\}]$
9. The temperature on a February morning is  $-6^{\circ}$  C celsius at 6 a.m. If the temperature drops 3 degrees by 7 a.m. rises 4 degrees between 7 a.m. and 8 a.m. and then drops 7 degrees between 8 a.m. and 9 a.m. Find the temperature at 9 a.m?
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