C -16
Learning Express
Explore Math
Text Book

Syllabus:
(Units : 1 to 2
(Pg. No.s : 5 – 28)

FORMATIVE ASSESSMENT - I

Class - 5 :: Learning Express Explore Math

25

Time : 1 Hour **Max. Marks : 25**

Name : **Class :** **Section :** **Roll No :**

I. Solve the following word problems. **[4 × 2 = 8]**

1. A tanker of petrol can hold 9,000 litres of petrol. How much petrol 456 tankers can hold ?
2. The number of votes cast in an election was 15,24,185. If out of this 32,219 votes were invalid, how many votes were valid ?
3. 11,54,724 kgs of rice was distributed equally to families suffering from famine. If each family received 123 kgs of rice, how many families were there in all ?
4. In a school there are 1,215 students. If each child pays a fees of ₹ 1,095 per month, how much amount is collected as fees every month ?

II. Complete the numbers sequence with the values that should come next.

[2 × 1 = 2]

1. 3, 7, 11, 15, 19 _____
2. 10, 13, 16, 19, 22, 25 _____

III. Divide and write the quotient and remainder. **[2 × 2 = 4]**

1. 11324 ÷ 3000
2. 42973 ÷ 4000

IV. Add the following. **[2 M]**

1. 5 1 9 7 2 1 9 4 0
+ 4 0 1 9 3 1 4 0 7
_____
_____

Note : Cut along the marking to avoid un-even cutting or torn

V. Arrange the following in ascending and descending order. **[2 M]**

1, 15, 34, 250 ; 3, 45, 27, 198 ; 43, 25, 54, 000 ; 42, 25, 45, 400

Ascending order : _____

Descending order : _____

VI. Write the numbers for the following number names. **[2 × 1 = 2]**

1. One Crore One _____

3. Forty - three crore, Fifty-four thousand and one _____

VII. Subtract the following. **[2 M]**

1. 1 7 3 4 5 1 9 1

– 0 6 3 4 1 9 7 7

_____

_____

VIII. Fill in the blanks with the correct sign >, < =. **[3 × 1 = 3]**

1. 1, 12, 73, 197 _____ 21, 34, 19, 219

2. 41, 33, 27, 199 _____ 41, 34, 27, 279

3. 73, 19, 24, 100 _____ 73, 18, 23, 100

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Syllabus:
(Units : 3 to 5
(Pg. No.s : 29 – 65)

FORMATIVE ASSESSMENT - II

Class - 5 :: Learning Express Explore Math

25

Time : 1 Hour **Max. Marks : 25**

Name : **Class :** **Section :** **Roll No :**

I. Solve the following word problems. **[3 × 2 = 6]**

1. Mr. Mehta is 160 cm tall and his brother sunny is 7/8 as tall as him. How tall is Tom ?
2. Mr. Raj has ₹ 5,00,000 in his account. He gave 3/4 of this to his wife and the remaining to his children. How much money did Mr. Raj give to his wife ?
3. The H.C.F. and L.C.M of two numbers are 12 and 5040 respectively. One of the numbers is 144. Find the other number.

II. Write the Roman numbers for : **[2 × 1 = 2]**

1. 100 – _____
2. 75 – _____

III. Find the first three common multiples of the following pairs of numbers. **[2 × 1 = 2]**

1. 6, 8 – _____
2. 2, 3 – _____

IV. Which of these numbers are divisible by 11. **[2 × 1 = 2]**

1. 4, 38, 169 – _____
2. 1, 23, 244 – _____

V. Find the H.C.F. of the following by long division method. **[3 × 1 = 3]**

1. 256, 96 – _____
2. 210, 100 – _____
3. 42, 140 – _____

Note : Cut along the marking to avoid un-even cutting or torn

VI. The Product of two numbers is 6,400 and their L.C.M. = 400. What is the H.C.F. of the numbers ? **[2 M]**

VII. Multiply. **[2 × 2 = 4]**

1. $12\ \frac{1}{2} \times 3\ \frac{3}{4}$ – _____

2. $\frac{7}{9} \times \frac{21}{28}$ – _____

VIII. Reduce the fractions to the lowest terms. **[2 × 1 = 2]**

1. $\frac{5}{75}$ – _____

2. $2\ \frac{3}{6}$ – _____

IX. Write the Hindu - Arabic numerals for : **[2 × 1 = 2]**

1. XLV – _____

2. LXXV – _____

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Syllabus:
(Units : 6 to 9)
(Pg. No.s : 66 – 108)

FORMATIVE ASSESSMENT - III

Class - 5 :: Learning Express Explore Math

25

Time : 1 Hour **Max. Marks : 25**

Name : **Class :** **Section :** **Roll No :**

I. Find the value of **[2 × 1 = 2]**

1. 125% of 60 2. 15% of 60

II. Find the product of the following. **[2 × 1 = 2]**

1. 0.5 × 0.005 – _____

2. 0.1 × 0.7 – _____

III. Solve the following word problems. **[2 × 2 = 4]**

1. Mr. Sharma earns ₹ 5,600 per week. He works 8 hours per day. How much does he earn in an hour ?
2. Julia cut a string 8.46 m long into 6 equal pieces. What is the length of each piece ?

IV. Round each number to the underlined place value position. **[2 × 1 = 2]**

1. 5. 4 9 1 – _____

2. 4 6 4.4 7 8 – _____

V. Express the following in percent. **[3 × 1 = 3]**

1. 52 of 80 – _____ 3. 30 of 120 – _____

2. 15 of 75 – _____

VI. In a test you scored 24 marks out of 40. Calculate your marks in percentage.

[2 M]

VII. Convert the following fractions to decimals. **[3 × 1 = 3]**

1) $5\frac{1}{4}$ – _____ 2) $\frac{3}{4}$ – _____ 3) $1\frac{2}{5}$ – _____

Note : Cut along the marking to avoid un-even cutting or torn

VIII. Subtrtact the following. **[2 × 1 = 2]**

1. 42.00
   − 37.95

2. 156.005
   − 23.150

IX. Compare the two decimal numbers and fill in the appropriate sing in the blank >, <, =. **[3 × 1 = 3]**

1. 3.14 _____ 2.79

2. 4.631 _____ 4.631

3. 132.04 _____ 123.04

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Syllabus:
(Units : 12 to 15)
(Pg. No.s : 124 – 179)

FORMATIVE ASSESSMENT - IV

Class - 5 :: Learning Express Explore Math

25

Time : 1 Hour **Max. Marks : 25**

Name : **Class :** **Section :** **Roll No.**

I. Solve the following word problems. **[4 × 2 = 8]**

1. Meera's salary ₹12, 300 for 20 hours of work. Find the amount received by Meera after 31 hours of work ?
2. A bus accommodates 42 passengers in one trip. How many passengers does it carry in 15 trips ?
3. Satish can read 160 pages of a book in 4 hours. How many hours will he take to read 540 pages of a book ?
4. Milk is priced at ₹ 18 per litre. What is the price of 15 litres of milk ?

II. Find the area of the squares with given measurements. **[3 × 1 = 3]**

1. Side = 8 cm – _____
2. Side = 4 cm – _____
3. Side = 5.5 cm metres – _____

III. Calculate the sum of angles of the following polygons. **[3 × 1 = 3]**

1. hexagon – _____
2. triangle – _____
3. quadrilateral – _____

IV. Using a ruler and a protractor draw a square the given measurements.

[2 × 2 = 4]

1. Side = 4.5 cm
2. Side = 6 cm

Note : Cut along the marking to avoid un-even cutting or torn

V. Write true or false for the given statements. **[3 × 1 = 3]**

1. A trapezium is a parallelogram – _____
2. A parallelogram has four right angles – _____
3. The sum of angles of a quadrilateral is 360^0 – _____

VI. Fill in the blanks. **[4 × 1 = 4]**

1. A scalene triangle has all sides of _____ length.
2. The unequal side of an isosceles triangle is called the _____
3. In an equilateral triangle all sides are of _____ length.
3. In an obtuse triangle one angle measures _____ then 90^0.

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Syllabus:
(Units : 1 to 5)
(Pg. No.s : 5 – 65)

SUMMATIVE ASSESSMENT - I

Class - 5 :: Learning Express Explore Math

50

Time : 2 ½ Hours **Max. Marks : 50**

Name : **Class :** **Section :** **Roll No :**

I. Solve the following word problems. **[3 × 2 = 6]**

1. There were 27 chocolates in a box. Mehak ate 3/9 of them. How many chocolates are still remaining in the box ?
2. Mr. Mehta is 160 cm tall and his brother sunny is 7/8 as tall as him. How tall is Tom ?
3. Three strings of different length 240 cm, 318 cm and 426 cm are to be cut into equal lengths. What is the greatest possible length of each piece.

II. Write the numbers for the following number names. **[3M]**

1. Forty-three crore, Fifty-four thousand and one.
2. Ten crores, sixteen lakh four thousand seven hundred and eighty-five.
3. Nine lakhs sixty thousand eight hundred and sixteen.

III. Write the names for the numbers given below using the Indian place value chart. **[2 × 1 = 2]**

1. 42, 00, 00, 153 - _____
2. 2, 73, 47, 001 - _____

IV. Arrange the following in ascending and descending order. **[2 M]**

1. 17, 54, 37, 200 ; 16, 55, 24, 439 ; 17, 34, 28, 819 ; 16,54, 24, 500

   Ascending order : _____ ; _____ ; _____ ; _____

   Descending order : _____ ; _____ ; _____ ; _____

V. Add the following by arranging the numbers in columns. **[2 × 2 = 4]**

1. 1 + 10 + 100 + 1000 + 10,00,00,000 - _____
2. 40 + 35412521 + 23615731 + 560 - _____

Note : Cut along the marking to avoid un-even cutting or torn

VI. Multiply. **[2 × 2 = 4]**

1. 21000 × 4152 - _____

2. 79345 × 1563 - _____

VII. Divide the following and check your result using Divisor x Quotient + Remainder = Dividend formula. **[3 × 2 = 6]**

1. 401523 ÷ 309 _ _____

2. 178629 ÷ 515 _ _____

3. 24315 ÷ 253 _ _____

VIII. Write the numerical expression for the given word problems. **[3 × 1 = 3]**

1. Difference between 120 and the products of 6 and 7 _____

2. Subtract the product of 6 and 4 from 75 _____

3. Quotient of 90 and 15 added to the product of 5 and 7 _____

IX. Complete the numbers sequence with the values that should come next. **[3 × 1 = 3]**

1. 2, 2, 5, 5, 8, 8, 11, 11 _____

2. 3, 7, 11, 15, 19 _____

3. 10, 13, 16, 19, 22, 25 _____

X. Write the first five multiples of the following numbers. **[3 × 1 = 3]**

1. 15 - _____ 2. 12 - _____ 3. 7 - _____

XI. Which of these numbers are divisible by 18. **[3 × 1 = 3]**

1)6, 50, 916 - _____

2) 3, 21, 098 - _____

3) 9, 12, 600 - _____

XII. Fill in the blanks using the properties of multiplication. **[6 × 1 = 6]**

1) $\frac{2}{3}$ × _____ = $\frac{2}{3}$

2) $\frac{7}{9}$ × 0 = _____

3) $\frac{4}{9}$ × _____ = 0

4) $\frac{5}{6} \times \frac{4}{9} =$ ____ $\times \frac{5}{6}$

5) $\frac{3}{4} \times$ _____ $= \frac{3}{4}$

6) $\frac{7}{9} \times \frac{2}{5} = \frac{2}{3} \times$ _____

XIII. Match the Hindu - Arabic numeral to the correct Roman numeral. **[5 × 1 = 5]**

1. 13	( )	a) XIII
2. 750	( )	b) MCMXXVII
3. 215	( )	c) DCCL
4. 1927	( )	d) MMDCCLX
5. 2760	( )	e) CCXV

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Note : Cut along the marking to avoid un-even cutting or torn

C -16
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Explore Math
Text Book

Syllabus:
(Units : 1 to 11
Pg. No.s : 5 – 123)

SUMMATIVE ASSESSMENT - II

Class - 5 :: Learning Express Explore Math

Time : 2 ½ Hours **Max. Marks : 50**

50

Name : **Class :** **Section :** **Roll No :**

I. Solve the following word problems. **[6 × 2 = 12]**

1. Anand bought a cycle for ₹ 6,500. He spent ₹ 500 on paint and ₹ 1,000 on a few parts. At what price should he sell to make a profit of 10% ?
2. Ali bought a blowing ball for ₹ 700 and sold it for ₹ 770. Find his profit. Express the profit as a percentage.
3. The National History Museum has collected 125 dinosaurs. Gauri has collected 3/5 of this amount. How many dinosaurs has Gauri collected ?
4. Mr. Raj has ₹ 5,00,000 in his account. He gave 3/4 of this to his wife and the remaining to his children. How much money did Mr. Raj give to his wife ?
5. Three strings of different lengths 240 cm, 318 cm and 426 cm are to be cut into equal lengths. What is the greatest possible length of each peice.
6. Pooja got a 40% off an purchasing a football priced at ₹ 750. How much did pooja pay for the ball ?

II. Round the following numbers to the underlined place value position. **[8× 1 = 8]**

1. 7 4 2 2 7 5 - _____
2. 7 3 5 9 0 2 - _____
3. 7 6 3 - _____
4. 4 9 6 3 0 - _____
5. 2 6 2 9 2 1 - _____
6. 8 4 6 3 2 2 - _____
7. 1 4 4 7 0 9 - _____
8. 2 6 0 8 0 - _____

III. Express the following decimals as percent. **[3× 1 = 3]**

1. 0.35 - _____
2. 2.79 - _____
3. 0.008 - _____

Note : Cut along the marking to avoid un-even cutting or torn

IV. Find the product of the following. **[5 × 1 = 5]**

1. 4.98 × 1000 – _____
2. 1.035 × 100 – _____
3. 13.49 × 10 – _____
4. 7.19 × 100 – _____
5. 2.52 × 10 – _____

V. Find the difference. **[2 × 1 = 2]**

1. 34.15 – 21.95 _ _____
2. 21.32 – 13.958 _ _____

VI. Divide. **[3 × 2 = 6]**

1. $1\frac{4}{3} \div 4$ 2. $7\frac{1}{7} \div 10$ 3. $\frac{4}{7} \div 5$

VII. Complete the table given below. **[5 × 1 = 5]**

Sr. No.	Cost Price	Selling Price	Profit/Loss	Profit/Loss in Rupees	% of Profit/ Loss
1.	₹ 4,000	₹ 4,200	Profit	₹ 4,200 – ₹ 4,000 = ₹ 200	$\frac{200}{4000} \times 100 = 5\%$
2.	₹ 6,100	₹ 5,800			
3.	₹ 825	₹ 830			
4.	₹ 2,150	₹ 2,000			
5.	₹ 3,720	₹ 3,500			

VIII. Fill in the blanks with the correct sign >, <, =. **[4 × 1 = 4]**

1. 1, 12, 73, 197 _____ 21, 34, 19, 219
2. 41, 33, 27, 199 _____ 41, 34, 27, 279
3. 73, 19, 24, 100 _____ 73, 18, 23, 100
4. 21, 73, 43, 159 _____ 73, 43, 159

XIII. Match the Hindu - Arabic numeral to the correct Roman numeral. **[5 × 1 = 5]**

1. 13 ( ) a) XIII
2. 750 ( ) b) MCMXXVII
3. 215 ( ) c) DCCL
4. 1927 ( ) d) MMDCCLX
5. 2760 ( ) e) CCXV

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Syllabus:
(Units : 1 to 17)
(Pg. No.s : 5 – 196)

SUMMATIVE ASSESSMENT - III

Class - 5 :: Learning Express Explore Math

50

Time : 2 ½ Hours **Max. Marks : 50**

Name : **Class :** **Section :** **Roll No.**

I. Solve the following. **[6 × 2 = 12]**

1. 12 men can dig a pond in 8 days. How many men can dig it in 6 days ?
2. Asha bought a microwave for ₹ 9,750. She paid ₹ 250 as transport charges to get the microwave to her house. After a year, she decided to sell it at a loss of 10%. At what price did Asha sell the microwave ?
3. Ravi took a mathtest and got 35 correct answers out of 45 questions asked. What is the percentage of correct answers ?
4. Anita ordered 9 pizzas for her party. If the cost of each pizza is ₹ 259.50. How much money does Anita needs to pay ?
5. A company sells 412 motorcycles in a year. If on each motorcycle sold, the company earns ₹ 18,540, then what is the total profit of the company if all the motorcycles are sold ?
6. A group of girls brought 72 rainbow haribands, 144 brown hairbands and 216 bright coloured hairbands. What is the largest possible number of girls in the group ?

II. Fill in the blanks. **[8 × 1 = 8]**

1. A scalene triangle has all sides of _____ length.
2. Volume of a cube is _____
3. If capacity is 450 ml then volume is _____
4. If volume is 70 cm^3 then capacity is _____
5. If unequal side of an isosceles triangle is called the _____
6. In an equilateral triangle all sides are of _____ length.
7. In an obtuse triangle one angle measures _____ then 90^0.
8. If volume is 2,000 cm^3 then capacity is _____

Note : Cut along the marking to avoid un-even cutting or torn

III. Write true or false for the given statements. **[3 × 1 = 3]**

1. A trapezium is a parallelogram - _____
2. The sum of angles of a quadrilateral is 360^0 - _____
3. A square is always a rectangle - _____

IV. These are some common temperatures values that we come across in everyday life : Read the chart and answer the following questions. **[5 × 1 = 5]**

Temperature	Fahrenheit	Celsius
Water Boils		100^0C
Water Freezes		0^0C
Normal Human Body Temperature	98.6^0F	37^0C
Room Temperature	68^0F	20^0C

1. At what temperature does waterboil ? _____
2. Convert this temperature to the fahrenheit scale _____
3. What is the freezing point of water. _____
4. Find the fahrenheit equivalent of the freezing point of water _____
5. Name the instrument used to measure the temperature of human body

_____

V. Find the prime factors of the following. **[3 ×1 = 3]**

1. 1025 - _____
2. 216 - _____
3. 72 - _____

VI. Marks for Frank's Math tests are as shown below : **[3 ×1 = 3]**

Test	1	2	3	4	5	6
Marks	75	80	100	85	70	95

From this data create a line graph. Remember the following points :

1. Start the scale from 0.
2. Label the vertical and horizontal axis.
3. Locate the points on the graph.
4. Connect the points with line segments.
5. Write the title of line graph.

Then answer the following. **[3 × 1 = 3]**

1. How many marks did frank get in the third test ?
2. In which test did he score 100 marks ?
3. What was the total number of marks of test 4 and 6 ?

VII. Express the following percent as decimal. **[4 × 1 = 4]**

1. 30.25 % - _____ 3. 10% - _____
2. 45% - _____ 4. 7.6% - _____

VIII. Add the following. **[2 × 2 = 4]**

1. 5 1 9 7 2 1 9 4 0
+ 4 0 1 9 3 1 4 0 7

_____

_____

2. 6 2 1 0 0 4 5 1
+ 1 4 5 4 1 9 5 2

_____

_____

IX. Arrange the following in ascending and descending order. **[2 × 2 = 4]**

1. 1, 15, 34, 250 ; 3, 45, 27, 198 ; 43, 25, 54, 000 ; 42, 25, 45, 400

   Ascending Order : _____ _____ _____ _____

   Descending Order : _____ _____ _____ _____

2. 71, 42, 37, 149 ; 63, 27, 19, 149 ; 43, 19, 24, 197 ; 23, 54, 34, 971

   Ascending Order : _____ _____ _____ _____

   Descending Order : _____ _____ _____ _____

Note : Cut along the marking to avoid un-even cutting or torn

X. Fill in the blanks with the correct sign >, <, =. **[4 × 1 = 4]**

1. 1, 12, 73, 197 _____ 21, 34, 19, 219
2. 73, 19, 24, 100 _____ 73, 18, 23, 100
4. 21, 73, 43, 159 _____ 73, 43, 159
5. 1, 47, 21, 498 _____ 1, 47, 21, 498.

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