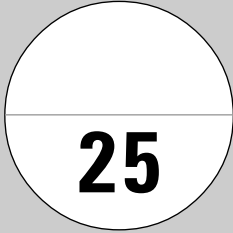


C - 16	FORMATIVE ASSESSMENT - I	Class - 6 :: Star Mathematics	
Vikram Star Mathematics			
Syllabus : (1 & 2 Units) Page No. 5 - 54	Time : 1 Hour	Max.Marks: 25	
Name :	Class :	Section :	Roll No.

I. Solve the following. [3 x 2 = 6]

1) Write in the expanded form.

93570086

2) Write in the short form.

$5 \times 10000000 + 3 \times 100000 + 2 \times 1000 + 1 \times 100 + 4 \times 10 + 5 \times 1$

3) Write the greatest and the smallest of the following.

3920, 8142, 4658, 6056

II. a) Express the following as Hindu – Arabic numerals. [2 x 1 = 2]

1) LXXXVII

2) MCD

b) Express the following numerals as Roman numbers. [3 x 1 = 3]

3) 15

4) 209

5) 2824

III. 1) Simplify [5 x 1 = 5]

$63 - \{(24 - 20) \times 15\}$

Name three pairs of primes :

2) With the same digit like 13 and 31.

3) With a difference of 10 like 19 and 29.

IV. 1) Find the HCF of the following by the successive division method. [2M]

101, 573, 1079

2) Find the LCM of the following by the division method.

64, 72, 96, 108

[2M]

3) Find the LCM

144, 180, 384

[2M]

V. Solve these problems. [2 x 2½ = 5]

1) A, B and C start running on a circular track from their respective points. A completes a full circle in 100 seconds, B in 120 Seconds and C in 144 seconds. If they all start from the same point, when will they next be all at the starting point presuming they maintain the same speed ?

2) Find the largest number that will divide 623, 729 and 841 leaving remainder 3, 9 and 1 respectively.

C - 16

Vikram
Star Mathematics

FORMATIVE ASSESSMENT - II

Syllabus :
(3 & 4 Units)

Page No. 55 - 84

Class - 6 :: Star Mathematics

Time : 1 Hour

Max.Marks: 25

25

Name :

Class :

Section :

Roll No.

I. Insert the correct symbol '>' or '<' for the following.

[5 x 1 = 5]

1) $+4$ 0

2) -75 -73

3) $+27$ -27

4) -35 $+8$

5) -6 -8

II. Solve the following using associative property.

[5 x 1 = 5]

1) $36 + 94 + 25$

2) $385 + 19 + 105$

3) $925 + 15 + 18$

4) $18 + 212 + 38$

5) $467 + 73 + 95$

III. Fill in the blanks.

[5 x 1 = 5]

1) $472 + 36 = 36 + \underline{\hspace{2cm}}$

2) $289 + 413 = \underline{\hspace{2cm}} + 289$

3) $751 + 0 = \underline{\hspace{2cm}} + 751$

4) $63 + 100 = 100 + \underline{\hspace{2cm}}$

5) $73 + 38 = \underline{\hspace{2cm}} + 73$

IV. Solve the following problems.

[5 x 2 = 10]

1) If -7 is the opposite of 7 in the set of integers. What is the opposite of 659 ?

2) If the product of two whole numbers is 1 , can we say that one or both of them will be 1 ? Justify through examples.

3) How much less than the sum of 42864 and 38149 is the difference between 186491 and 95381 ?

4) The sum of two integers is -8 . If one of them is -11 , what is the other ?

5) 75 workers in a factory are paid a total salary of Rs. $1,45,580$ every month. If all workers get the same amount, find the salary of each worker.

C - 16

Vikram
Star Mathematics

FORMATIVE ASSESSMENT - III

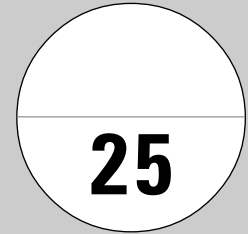
Syllabus :
(7 & 8 Units)

Class - 6 :: Star Mathematics

Page No. 111-143

Time : 1 Hour

Max.Marks: 25



Name :	Class :	Section :	Roll No.
--------	---------	-----------	----------

I. Find 'x' in the following. [5 x 1 = 5]

- 1) $6 : x = 78 : 65$
- 2) $56 : 49 = x : 70$
- 3) $3 : 17 = x : 255$
- 4) $11 : 121 = x : 231$
- 5) $x : 7 = 82 : 574$

II. Solve the following problems. [5 x 1 = 5]

- 1) $3x - 7 = 17$
- 2) $8r - 23 = -7$
- 3) $9a + 8 = 12$
- 4) $3 + 8y = 19$
- 5) $x + 150 = 50$

III. Fill in the boxes (Find the x value). [1 x 5 = 5]

1) $\frac{x+5}{3} = 11$

$$x + 5 = 3 \times \square$$

$$x + 5 = \square$$

$$x = \square - \square = \square$$

IV. a) Apply the rule of proportion and say which of these are true. [6 x 1 = 6]

- 1) $15 : 30 = 200 : 400$
- 2) $70 : 350 = 1 : 4$
- 3) $18 : 24 = 30 : 150$
- 4) $75 : 150 = 3 : 18$

b) Determine whether the following ratios form a proportion or not. Also write the middle terms and extreme terms where the ratios form proportion. [2 x 1 = 2]

- 5) 3 Kg : 70 Kg and 15g : 225 g
- 6) 78 litres : 130 litres and 12 bottles : 20 bottles.

V. Solve the following : [2 x 2 = 4]

- 1) The ratio of the sale of eggs on a sunday to that of the whole week is 3 : 7. If the total sale of eggs on sunday was 36, find total sale of eggs during the whole week.
- 2) The ratio of income to the expenditure is 7 : 6. Find the savings if the income is Rs. 14,000.

C - 16	FORMATIVE ASSESSMENT - IV	25
Vikram Star Mathematics		
Syllabus : (11,12 & 13 Units) Page No. 189 - 222	Class - 6 :: Star Mathematics	
	Time : 1 Hour	Max.Marks: 25
Name :	Class :	Section : Roll No.

I. Draw the following angles using a protractor.

[5 x 1 = 5]

- 1) 170°
- 2) 64°
- 3) 110°
- 4) 124°
- 5) 142°

II. Construct the following angles using set-squares.

[5 x 1 = 5]

- 1) 30°
- 2) 75°
- 3) 120°
- 4) 105°
- 5) 45°

III. Draw line segments of the following lengths and their perpendicular bisectors.

[5 x 1 = 5]

- 1) 4.2 cm
- 2) 5.6 cm
- 3) 6.4 cm
- 4) 8.4 cm
- 5) 7 cm

IV. Construct the following angles using compasses.

[5 x 1 = 5]

- 1) 150°
- 2) 105°
- 3) 15°
- 4) 30°
- 5) 120°

V. 1) Draw a circle of radius 6 cm.

[1 M]

2) Draw a circle having diameter 5 cm. Draw AB and CD as two of its diameter which are perpendicular to each other. Join AC, AD, BC and BD. Identify the figure so obtained. Is it a square ?

[2 M]

3) Draw a circle having diameter as 7cm. Draw AB and CD as two of its diameter. Join the end points of AB and CD (i.e., join AC, AD, BC, BD). Identify the figure so obtained. Is it a rectangle or square ?

[2 M]

C - 16**Vikram
Star Mathematics****SUMMATIVE ASSESSMENT - I****Syllabus :
(1 - 6 Units)****Page No. 5 - 110****Class - 6 :: Star Mathematics****Time : 2½ Hour****Max.Marks: 50****50****Name :****Class :****Section :****Roll No.****I. Find the sum.****[5 x 1 = 5]**

- 1) 591.46 km + 791.38 km
- 2) ₹ 791.48 km + ₹ 642.83 km
- 3) ₹ 49.08 + ₹ 68.13 + ₹ 89.18
- 4) ₹ 33.09 + ₹ 68.08 + ₹ 24.07
- 5) 56.180 kg + 9.136 kg + 7.3 kg

II. Simplify.**[5 x 1 = 5]**

- 1) 79.5 + 2.3 – 35.99
- 2) 41.945 – 1.294 + 33.28
- 3) 86.05 + 9.03 – 5.09
- 4) 79.5 + 2.3 – 35.99
- 5) 59.35 + 6.05 – 49.1

III. Write the following in expanded form.**[5 x 1 = 5]**

- 1) 0.0065
- 2) 8.664
- 3) 21.306
- 4) 304.291
- 5) 411.362

IV. Write the decimal fractions for the numbers given in expanded form.**[5 x 1 = 5]**

1) $30 + 0 + \frac{8}{10} + \frac{9}{100}$

2) $500 + 30 + 6 + \frac{2}{10} + \frac{4}{100} + \frac{9}{1000}$

3) $\frac{4}{10} + \frac{3}{100} + \frac{1}{1000} + \frac{7}{10000}$

4) $300 + 20 + 2 + \frac{3}{10} + \frac{4}{100} + \frac{6}{1000}$

5) 6 hundreds + 3 tens + 4 ones + 5 tenths + 1 hundredths

V. Convert the following fractions into decimal fractions.

[5 x 1 = 5]

- 1) $3\frac{7}{20}$ 2) $26\frac{9}{40}$ 3) $1\frac{3}{4}$
4) $\frac{19}{8}$ 5) $5\frac{3}{8}$

VI. Write the decimals in words. Also write the fractions for each following problems.

[5 x 1 = 5]

- 1) 0.4 2) 10.6 3) 9.2
4) 16.8 5) 3.9

VII. Add the following fractions.

[5 x 1 = 5]

- 1) $\frac{5}{9} + \frac{1}{3} + \frac{2}{6}$ 2) $2\frac{5}{7} + 5\frac{4}{7} + 3\frac{6}{7}$
3) $\frac{7}{8} + \frac{1}{6} + \frac{4}{9}$ 4) $1\frac{1}{3} + 2\frac{2}{3} + 5\frac{1}{3}$
5) $7\frac{4}{9} + 4\frac{8}{9} + 1\frac{2}{9}$

VIII. Subtract the following.

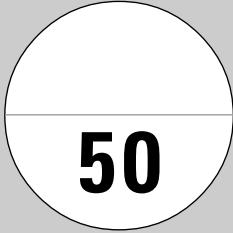
[5 x 1 = 5]

- 1) $6\frac{1}{4} - 3\frac{1}{8}$ 2) $4\frac{3}{8} - 2\frac{4}{5}$
3) $\frac{9}{13} - \frac{1}{8}$ 4) $\frac{10}{11} - \frac{3}{4} - \frac{1}{22}$
5) $\frac{15}{16} - \frac{7}{12} - \frac{1}{4}$

IX. Solve the problems.

[5 x 2 = 10]

- 1) Amit planted a fifth of his vegetable garden in the morning and two-seventh of it in the afternoon. What fraction of his garden was planted in one day ?
- 2) A circular figure is divided into triangular parts among which $\frac{4}{27}$ parts are coloured. How many parts are still to be coloured.
- 3) Three bags weights $2\frac{1}{3}$ kg, $4\frac{2}{3}$ kg and $1\frac{1}{10}$ kg each. What is the total weight of these three bags ?
- 4) In a school, the duration of a class in the primary section is 40 minutes and in the secondary section it is 1 hour. If both sections begin at 8 a.m., when will bells of the two sections ring together again.
- 5) Find the smallest number, which when divided by 14, 49 and 63 leaves a remainder of 3 in each case.

C - 16	SUMMATIVE ASSESSMENT - II	Class - 6 :: Star Mathematics	
Vikram Star Mathematics			
Syllabus : (1 - 10 Units) Page No. 5 - 188	Time : 2½ Hour	Max.Marks: 50	
Name :	Class :	Section :	Roll No.

I. Simplify using the BODMAS rule.

[5 x 1 = 5]

- 1) $100 \div (15 + 8 - 3) + 4$
- 2) $12 - 27 \div 9 + 6$
- 3) $30 \times 10 \div 5 + 20$
- 4) $25 - 27 \div 3$
- 5) $30 \times 10 \div 5 + 20$

II. Answer the following

[5 x 1 = 5]

- 1) Which of these are perfect numbers ?
1) 1 2) 2 3) 15 4) 25 5) 49
- 2) Write down the multiples of the following number between 200 and 300.
1) 45
- 3) State which of these are multiples of 10.
1) 340 2) 165 3) 5470 4) 3148
- 4) Write the factors of following number
1) 36
- 5) Which of the following numbers have 15 as a factor ?
1) 1575 2) 1240 3) 3015 4) 2255 5) 18525

III. Answer the following

[5 x 1 = 5]

- 1) List all primes between :
1) 80 and 100
- 2) List all even prime numbers.
- 3) Identify the numbers divisible by 11.
1) 6116 2) 8145 3) 86124 4) 643214
5) 20438 6) 14909 7) 97526 8) 563761
- 4) Test the divisibility of the following numbers by 3.
1) 1035 2) 781 3) 3564 4) 42973
- 5) Test the divisibility of the following numbers by 8.
1) 9508 2) 35613 3) 57896 4) 297693

IV. Write true or false. Give atleast one example to prove each answer. [5 x 1 = 5]

- 1) If a is a factor of b and c , then a is a factor of $b - c$.
- 2) If a number is divisible by 10, it is also divisible by 5.
- 3) Numbers divisible by 21 are also divisible by 3 and 7.
- 4) If a number is divisible by 3, it is also divisible by 6.
- 5) If a is a factor of d and $d = b + c$, then a is a factor of both b and c .

V. Express the following as a product of prime factors. [2 x 2½ = 5]

- 1) 256
- 2) 80

VI. Find the HCF by Prime Factorization method. [2 x 2½ = 5]

- 1) 170, 238
- 2) 69, 39

VII. Find the LCM of the following by the prime factorization method. [2 x 2½ = 5]

- 1) 16, 24, 36
- 2) 15, 30, 90

VIII. Fill in the blanks. [5 x 1 = 5]

- 1) A quadrilateral has _____ sides and _____ vertices.
- 2) A quadrilateral has _____ angles and _____ diagonals.
- 3) A diagonal of a quadrilateral is a line segment that joins two _____ vertices of the quadrilateral.
- 4) The measure of each angle of a convex quadrilateral is _____ 180° .
- 5) The measure of atleast one angle of a concave quadrilateral is _____ 180° .

IX. Solve the following problems. [5 x 2 = 10]

- 1) Find the largest number which divides 220, 313 and 716 leaving remainder 3 in each case.
- 2) Three tankers contain 465 litres, 403 litres and 434 litres of oil respectively. Find maximum capacity of a container that can measure the oil of all tankers, an exact number of times.
- 3) Find the smallest number, which when divided by 14, 49 and 63 leaves a remainder of 3 in each case.
- 4) Add 38116 to the difference of 149157 and 864.
- 5) Aditi ate four - ninths of her orange before lunch and two - ninths of her oranges after lunch. How much of her orange did she eat in all ?

C - 16

Vikram
Star Mathematics

SUMMATIVE ASSESSMENT - III

Syllabus :
(1 - 15 Units)

Page No. 5 - 243

Class - 6 :: Star Mathematics

Time : 2½ Hour

Max.Marks: 50

50

Name :

Class :

Section :

Roll No.

I. Find the area of rectangles whose length and breadth are

[5 x 1 = 5]

- 1) length = 6 m, breadth = 3 m
- 2) length = 9 m, breadth = 7 m
- 3) length = 7 m, breadth = 3 cm
- 4) length = 17 cm, breadth = 5 cm
- 5) length = 11 cm, breadth = 8 cm

II. Write the following in expanded form.

[5 x 1 = 5]

- 1) 8.664
- 2) 0.042
- 3) 0.301
- 4) 21.306
- 5) 0.63

III. Use distributive property to find the answer.

[5 x 1 = 5]

- 1) 2164×111
- 2) 372×999
- 3) 3004×501
- 4) 1007×998
- 5) 496×208

IV. Simplify:

[2 x 2½ = 5]

- 1) $3\frac{3}{12} - 2\frac{1}{4} + \frac{3}{5}$
- 2) $\frac{5}{8} - \frac{1}{3} + \frac{2}{6}$

V. Write in the short form.

[2 x 2½ = 5]

- 1) $4 \times 1000000 + 4 \times 100000 + 4 \times 100 + 4 \times 1$
- 2) $70000000 + 5000000 + 900000 + 20000 + 1000 + 300 + 20 + 4$

VI. Fill in the blanks.

[5 x 1 = 5]

- 1) 10 million = _____ crores.
- 2) 1 million = _____ lakhs.
- 3) 1 lakh = _____ thousands.
- 4) 1 billion = _____ millions.
- 5) 1 thousand = _____ tens.

VII. Subtract the following integers, using number line.

[5 x 1 = 5]

- 1) 5 from -13
- 2) 7 from 10
- 3) -3 from -8
- 4) -15 from 6
- 5) 6 from -8

VIII. Subtract.

[5 x 1 = 5]

- 1) 216 from -14
- 2) 114 from -114
- 3) 59 from -109
- 4) 0 from -72
- 5) 64 from -120

IX. Solve the following problems.

[5 x 2 = 10]

- 1) Three bells ring at intervals of 20, 28 and 30 seconds. If they begin to toll together, after how much time will they toll together again ?
- 2) If the product of two whole numbers is zero, can we say one or both of them will be zero ? Justify through examples.
- 3) A circular figure is divided into triangular parts among which $\frac{4}{27}$ parts are coloured. How many parts are still to be coloured ?
- 4) The room is 10 m × 8 m wide. If one packing case requires 20 cm × 40 cm of space, find the number of cases that can be exactly fitted on the floor.
- 5) The area of a rectangle is 672 sq.m and one side is 16 m. Find the perimeter of the rectangle.
