



Sanskriti School

*Learning
Ladder*



MATHEMATICS

CLASS - IV

The Learning Ladder: Class IV**Topic: Large Numbers****Question**

Q.1 Fill in the blanks

- a) Name the places in the ones period _____, _____, _____
- b) The places in the thousands period are _____ and _____
- c) One lakh and ten lakh are in _____ period

Q.2 Write the numerals for the following and mark the period in the Indian system

- a) One thousand seventy _____
- b) Two thousand seven hundred fifty nine: _____
- c) Four thousand one hundred: _____
- d) Eight thousand seven: _____

Rough

I can write numerals after marking periods

Q.3 Write the number names for the following after making the period.

- a) 8765: _____







- b) 2409: _____







- c) 1000032 _____





- d) 2479816 _____



I can write the number names

<p>Q.4 Write the numerals for</p> <p>a) Seven million, two hundred twenty five thousand, four hundred thirty eight _____</p> <p>b) Three million, seventy thousand twenty five _____</p> <p>c) Nine million, two hundred five thousand, one hundred ten _____</p> <p>d) Three million, eight hundred thousand, five hundred ninety _____</p>	<p style="text-align: center;">Rough</p> <div style="text-align: center;">   </div>
<p>I can write the numerals</p>	
<p>Q.5 Write the number names for the following after making the period in the International Number system</p> <p>a) 73275531 _____ _____</p> <p>b) 84209541 _____ _____</p> <p>c) 60842590 _____ _____</p>	<div style="text-align: center;">   </div>
<p>I can write the number names</p>	
<p>Q.6 Write the expanded form of the following:</p> <p>a) 4112 _____ _____ _____</p> <p>b) 30506 _____ _____ _____</p> <p>c) 94793 _____ _____ _____</p>	<div style="text-align: center;">   </div>
<p>I can write in expanded form</p>	

<p>Q.7 Write the short form:</p> <p>a) $1000 + 200 + 20 + 7 =$ _____</p> <p>b) $1000 + 400 + 7 =$ _____</p> <p>c) $2000 + 700 + 80 =$ _____</p> <p>d) $3000 + 800 + 80 + 8 =$ _____</p>	<p>Rough</p> <p> </p>
<p>I can write Short form</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>
<p>Q.8 Compare the following numbers:</p> <p>a) 2424 _____ 4242</p> <p>b) 3991 _____ 3990</p> <p>c) 1700 _____ 1707</p> <p>d) 899 _____ 6889</p>	<p> </p>
<p>I can compare numbers</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>
<p>Q.9 Write the number before and after:</p> <p>a) _____ 3145 _____</p> <p>b) _____ 8097 _____</p> <p>c) _____ 111 _____</p> <p>d) _____ 6549 _____</p>	<p> </p>
<p>I can write the number before & after</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>

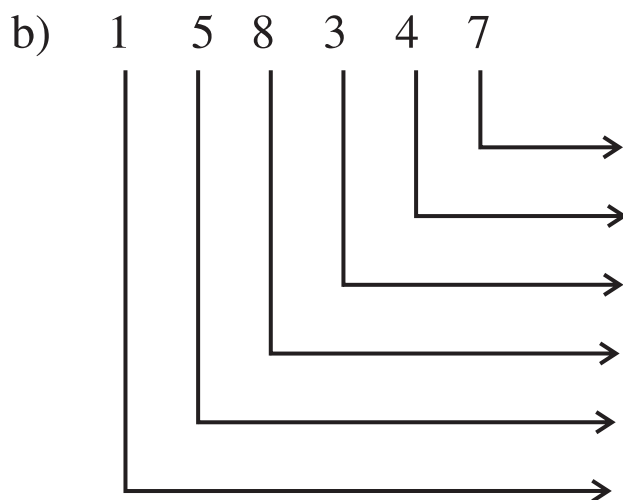
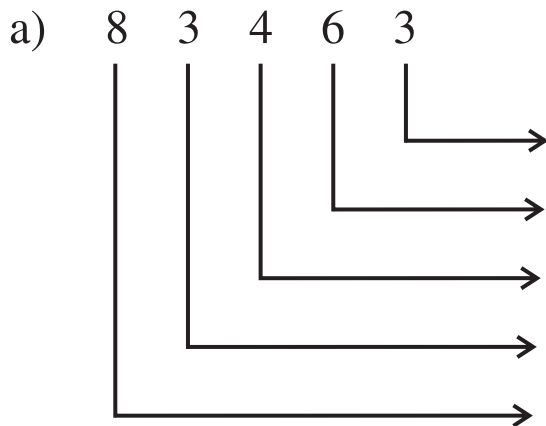
<p>Q.10 Form the largest number using each digit only one:</p> <p>a) 4,3,2,9 _____</p> <p>b) 5,0,6,8 _____</p> <p>c) 1,9,0,7 _____</p>	<p>Rough</p> <p> </p>		
<p>I can form the largest number</p>	<table border="1"> <tr> <td data-bbox="1323 596 1441 687"></td> <td data-bbox="1441 596 1572 687"></td> </tr> </table>		
<p>Q.11 Write the smallest number using each digit only one:</p> <p>a) 3,2,4,1: _____</p> <p>b) 9,8,6,8: _____</p>	<p> </p>		
<p>I can form the smallest number</p>	<table border="1"> <tr> <td data-bbox="1323 1072 1441 1164"></td> <td data-bbox="1441 1072 1572 1164"></td> </tr> </table>		
<p>Q.12 Write the place value of each underlined digit:</p> <p>a) 7 4 9 <u>8</u> 0 6 <u>3</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>b) <u>6</u> 4 2 0 <u>6</u> 3</p> <p>_____</p> <p>_____</p> <p>_____</p>			

c) 1 4 3 2 0 7



Rough

I can write the Place Value of digits

Q.13 Find the place value of each digit



I can find the Place Value of each digit

Q.14 Write the place, period and place value of the underlined digit.				Rough
Number	Place	Place value	Period	
6 3 <u>8</u> 4 6				 
7 <u>3</u> 4 6 2 1 7				
4 8 7 1 3 <u>4</u>				
9 5 <u>6</u> 3 4 0 0				
<u>6</u> 3 1 4 7				
1 4 6 <u>3</u> 1 4 9 6				
I can write the place, place value and period of an underlined digit				
Q.15 Find the sum of the place value of 7 in 97, 46, 005 and 9 in 46, 39, 204 _____ _____ _____ _____ _____ _____				

Date : _____

Name : _____

Q.16 Find the difference of the place value of 6 in 6,00,403 and 5 in 43,05,481

Rough



I can find the difference and sum of the place value of numbers.

The Learning Ladder: Class 4

Topic : Addition

Rough

Q.1 Add the following :

a)
$$\begin{array}{r} 300 \\ 200 \\ + 100 \\ \hline \\ \hline \end{array}$$

b)
$$\begin{array}{r} 402 \\ 386 \\ + 11 \\ \hline \\ \hline \end{array}$$

c)
$$\begin{array}{r} 563 \\ 226 \\ + 117 \\ \hline \\ \hline \end{array}$$

d)
$$\begin{array}{r} 1088 \\ + 927 \\ \hline \\ \hline \end{array}$$



I can add numbers

Q.2 Add the following :

Rough

a) Add horizontally :

i) $10,000 + 800 + 50 =$ _____

ii) $7,000 + 333 + 15 =$ _____

iii) $19,000 + 500 + 75 =$ _____

iv) $20,000 + 9000 + 777 =$ _____

v) $6000 + 600 + 60 + 6 =$ _____

b) Add by arranging in columns:

i) $4,250 + 891 + 66$



I can add numbers horizontally
I can arrange and add numbers

Date : _____

Name : _____

ii) $16,532 + 901 + 74 + 3$

Rough

iii) $55,006 + 8,223 + 205 + 14$

Date : _____

Name : _____

iv) $3,06,776 + 9154 + 543$

Rough

v) $8,50,072 + 76,140 + 552$



I can arrange large numbers and add.

The Learning Ladder: Class 4**Topic : Subtraction****Rough**

Q1. Subtract :

a) $10,000 - 600 =$

b) $10,000 - 5,000 =$

c) $7,777 - 777 =$

d) $40,500 - 20,500 =$

e) $10,00,000 - 15,000 =$



In can subtract large numbers horizontally

Q2. Arrange in columns and subtract:

a) $8,274 - 2,160$

Date : _____

Name : _____

b) $49,200 - 16,500$

Rough

c) $39,821 - 15,607$



I can arrange and subtract large numbers

Date : _____

Name : _____

Q3. Subtract 5,621 from 10,000

Rough

Q4. Subtract 21,743 from 25,000

Q5. Step Questions :

Rough

(a) Add 4,021 to the difference between 22,897 and 20,005

Step: 1

Step: 2

(b) Subtract 6,343 from the sum of 9,041 and 5,333

Step: 1

Step: 2

Topic : Story Sums from Addition and Subtraction

Q1. Radha got 5,625 Chocolates to distribute to children in her school. She could distribute only 4,977 Chocolates. How many Chocolates are left with her?

Rough



Q2. Sandeep went to the market to buy groceries and bought 500 Kgs of rice, 175 Kgs of sugar, 223 Kgs of dal (lentils). What is the total quantity of groceries in Kgs that he bought ?

Rough**My learning check list:**

- I can add horizontally
- I can add in columns
- I can subtract horizontally
- I can subtract in columns
- I can carry over and borrow
- I can do "step wise" questions
- I can write Statements in Story Sums
- I can identify the operation to be used

The Learning Ladder: Class 4

Topic: Multiplication

Q1. Multiply the following		Rough
a) 316×5		
b) 8362×4		
c) 5326×9		 
I can multiply with a single digit		

Q2. Multiply the following

Rough

a) 596×23

b) 8632×49



I can multiply with two digits

Q3. Multiply the following horizontally:-

Rough

a) $632 \times 7 =$ _____

b) $4326 \times 9 =$ _____

c) $8360 \times 8 =$ _____

d) $532 \times 4 =$ _____

Q4. A garden has 5 rows of apple trees. Each row has 26 trees in it. How many apple trees are there in the garden?



I can multiply horizontally
I can solve statement sums

Date : _____

Name : _____

a) 1437×693

Rough

b) 7860×567

I can multiply with 3 digits



The learning Ladder: Class 4**Topic: Division****Rough**

Q1. Division by single digit:

a) Divide 643 by 2

b) Divide 798 by 3



I can divide by a single digit

Q2. Divide and check:

Rough

a) $9246 \div 4$



I can divide and check to see if my sum is correct

Date : _____

Name : _____

Q3. Divide the following:

Rough

a) $4202 \div 12$

b) $987 \div 33$

Date : _____

Name : _____

c) $7942 \div 24$

Rough



I can divide by 2 digits

The Learning Ladder: Class 4

Topic: Factors and Multiples

Rough

Q.1 Write the 7th Multiple of :

- a) 6 =
- b) 12 =
- c) 27 =
- d) 35 =
- e) 100 =

Q.2 Write the 1st five Multiples of the following:

- a) 3 =
- b) 13 =
- c) 43 =
- d) 200 =

Q3. Fill the blanks :

- a) 3 even multiples of 7 are _____, _____, _____
- b) 3 odd multiples of 9 are _____, _____, _____



My Learning Check list :

- I know the 1st multiple of every number
- I know how to find the multiples of given Numbers
- I know odd and even multiples.

Topic: Test of Divisibility

From the numbers 'given below, write the numbers divisible by:

325, 182, 288, 400, 72, 810, 681, 819, 6050, 155, 39

Divisible by:

2 → _____

3 → _____

4 → _____

5 → _____

6 → _____

9 → _____

10 → _____

My Learning Check list :

I understand the rules of divisibility of

 2 3 4 5 6 9 10

Rough

Tick the
Numbers
for whom
you Know
Test of
Divisibility!

Topic : Checking for Multiples

Q1. Check if the bigger number is a multiple of the smaller number

a) 506, 32

b) 115, 5

Rough

My Learning Check list:

I know how to check if one no. is a multiple of the other number.

Topic : Factor : Finding factor

Q.1 Find the factors of the following numbers:

a) 32 : _____

b) 65 : _____

Rough

My Learning check list:

I can find the factor of a given number

Topic : Highest Common Factor

Q.1 Find the HCF of: 24 and 242

Rough

Q.2 Find the HCF of : 36 and 39



My Learning check list :

I can find the HCF of 2 given no. using the factor method.

Topic : Checking for Factors

Q.1 Check if the smaller number is a factor of the bigger number.

a) 3244, 24

b) 6339, 3

Rough

My Learning Check list :

I can check if the smaller number is a factor of the bigger number

Topic : Prime and Composite Numbers

Q.1 Write down prime numbers between 10 to 30 :-

Q.2 Write the composite numbers between 10 to 40 :-

Q3 Fill in the blanks :-

a) Smallest prime number = _____

b) Smallest odd composite number = _____

c) Two consecutive prime numbers = _____

d) Largest prime number less than 50 = _____

e) Largest composite number less than 10 =

Rough

My Learning Check list:

I have understood prime numbers

I have understood composite numbers

Topic : Prime Factorization using factor Tree Method

Q.1 Find the Prime Factorization of the following using the Factor Tree Method :

a) 65

b) 100

c) 120

Rough

My Learning Check list :

I have understood the Factor Tree Method

Topic : Least Common Multiple (LCM)

Q.1 Find out the LCM of the following numbers using Division Method :

a) LCM of 14 and 24

Rough

b) LCM of 15, 25 and 40



My Learning Check list :

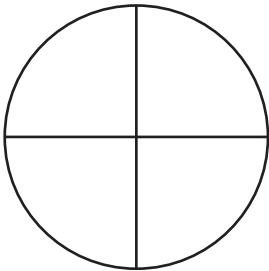
I can find out the LCM of numbers using the Division Method.

The Learning Ladder: Class 4

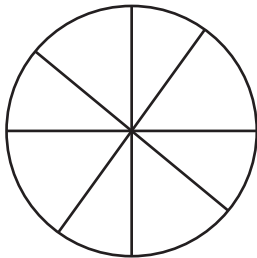
Topic - Fractions

Q.1 Shade the following fractions:-

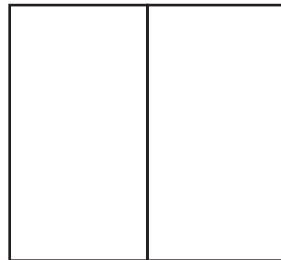
$$\frac{1}{4}$$



$$\frac{5}{8}$$



$$\frac{1}{2}$$



Rough



I can shade the correct fraction.

Q.2 Draw and Shade the following fractions

$$\frac{3}{6} =$$

$$\frac{8}{9} =$$

$$\frac{4}{8} =$$



I can draw the corresponding fraction

Rough

Q.3 Write in fraction form:

- a) Three sevenths = _____
- b) Thirteen hundredths = _____
- c) Five elevenths = _____

Q.4 Fill in the blanks

- a) A fraction that has value less than 1 whole is called a _____ fraction
- b) Fractions having value greater than 1 whole are _____ fractions.
- c) In a fraction if
 $N > D$ it is a _____ fraction
 $N < D$ it is a _____ fraction
- d) A numeral which is combination of a whole number and proper fraction is called a _____ number.



I understand fractions

Q.5 Write the first 5 equivalent fraction of the following:

a) $\frac{1}{9} =$ _____

b) $\frac{4}{5} =$ _____

c) $\frac{10}{13} =$ _____



I can find equivalent fractions

Q.6 Fill in the missing numerator or denominator in these equivalent fractions

Rough

a) $\frac{\square}{3} = \frac{6}{9}$

b) $\frac{2}{\square} = \frac{10}{15}$

c) $\frac{4}{5} = \frac{\square}{20}$

d) $\frac{7}{\square} = \frac{77}{121}$

e) $\frac{\square}{7} = \frac{2}{14}$

f) $\frac{15}{20} = \frac{\square}{100}$

g) $\frac{\square}{8} = \frac{36}{48}$

h) $\frac{9}{15} = \frac{36}{\square}$



I can find the missing number

Q.7 Reduce the fraction to their lowest form

Rough

a) $\frac{15}{35} = \underline{\hspace{2cm}}$ b) $\frac{49}{63} = \underline{\hspace{2cm}} =$

c) $\frac{24}{60} = \underline{\hspace{2cm}}$ d) $\frac{12}{18} = \underline{\hspace{2cm}} =$



I can reduce the fraction to the lowest form

Q.8 Circle the proper fractions

a) $\frac{1}{4}$ $\frac{5}{5}$ $\frac{4}{9}$ $\frac{11}{8}$ $\frac{7}{2}$ $\frac{9}{10}$

b) Circle the improper fractions

$\frac{3}{2}$ $\frac{4}{4}$ $\frac{0}{5}$ $\frac{12}{7}$ $\frac{5}{7}$ $\frac{9}{5}$

c) Circle the mixed fractions

$\frac{15}{7}$ $1\frac{3}{5}$ $\frac{4}{7}$ $6\frac{3}{8}$ $1\frac{7}{8}$ $\frac{5}{5}$

d) Circle the unit fraction

$\frac{1}{5}$ $\frac{2}{5}$ $\frac{3}{5}$ $\frac{1}{7}$ $\frac{9}{7}$ $\frac{16}{9}$ $\frac{1}{20}$ $\frac{5}{1}$



I can identify proper, improper, mixed and unit fractions

Q.9 Change the improper fractions into mixed numbers.

Rough

a) $\frac{15}{7} =$

b) $\frac{26}{3} =$







c) $\frac{18}{5} =$





d) $\frac{35}{6} =$

e) $\frac{73}{9} =$



I can change the improper fractions into mixed fraction.

<p>Q10 Change the mixed number into improper fraction</p> <p>a) $3\frac{7}{9} = \underline{\hspace{2cm}}$ b) $10\frac{4}{7} = \underline{\hspace{2cm}}$</p> <p>c) $11\frac{1}{9} = \underline{\hspace{2cm}}$ d) $5\frac{9}{11} = \underline{\hspace{2cm}}$</p> <p>e) $12\frac{1}{8} = \underline{\hspace{2cm}}$</p>	<p>Rough</p> <p> </p>
<p>I can convert mixed fraction into improper fractions</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>
<p>Q11 Write the fraction as a division sum</p> <p>a) $\frac{16}{8} =$ b) $\frac{12}{4} =$</p> <p>c) $\frac{3}{8} =$ d) $\frac{5}{9} =$</p>	<p> </p>
<p>I can write the fraction as a division sum</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>
<p>Q12 Write the division sum as fraction</p> <p>a) $12 \div 5 = \underline{\hspace{2cm}}$ b) $9 \div 7 = \underline{\hspace{2cm}}$</p> <p>c) $6 \div 13 = \underline{\hspace{2cm}}$ d) $100 \div 49 = \underline{\hspace{2cm}}$</p>	<p> </p>
<p>I can write the division sum as a fraction</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>

<p>Q13 Compare mentally and use the appropriate symbol >, < or =</p> <p>a) $\frac{17}{8}$ <input type="text"/> $\frac{19}{8}$ b) $\frac{15}{17}$ <input type="text"/> $\frac{13}{17}$</p> <p>c) $\frac{16}{7}$ <input type="text"/> $\frac{13}{7}$ d) $\frac{5}{9}$ <input type="text"/> $\frac{11}{9}$</p>	<p>Rough</p> <p> </p>
<p>I can compare mentally</p>	
<p>Q14 Add and subtract the following</p> <p>a) $\frac{7}{9} + \frac{4}{9} + \frac{3}{9} =$ _____ _____ _____</p> <p>b) $\frac{6}{11} + 1\frac{5}{11} + \frac{2}{11} =$ _____ _____ _____</p> <p>c) $1\frac{7}{13} - \frac{5}{13} =$ _____ _____ _____</p>	<p> </p>
<p>I can add and subtract like fractions</p>	<p><input type="checkbox"/> <input type="checkbox"/></p>