KENDRIYA VIDYALAYA IIT CHENNAI

SUMMER HOLIDAY HOME WORK – 2017-18

CLASS - VII SUBJECT - MATHS

CONTENTS

Choose correct option in questions 1 to 5.

1. 90000 + 500 + 70 + _____ + 5 = 92575
   a. 2000 b. 200
   c. 20 d. 2
2. 0 + _____ + 600 + 6000 + 30000 = 36630
   a. 3000 b. 30
   c. 300 d. 3
3. 60 + 40000 + 700 + 9000 + 5 + 800000 = _____
   a. 849706 b. 874960
   c. 849760 d. 890000
4. 1000 + 600 + 30 + 1 + 50000 + 300000 = _____
   a. 531631 b. 351613
   c. 356131 d. 351631
5. 200000 + 40000 + _____ + 8000 + 60 + 1 = 248861
   a. 800 b. 8000
   c. 80 d. 8
6. Build a 5-digit number from the following:
   a. 3 + 30 + 0 + 1000 + 70000
   b. 8 + 0 + 900 + 9000 + 10000
7. Build a 6-digit number from the following:
   a. 10 + 80000 + 400 + 1000 + 8 - 700000
   b. 100 + 10 + 700000 + 1000 + 60000 + 4
8. Find the missing place value from a 6-digit number:
   a. 400 + _____ + 700000 + 0 + 50000 + 1 = 750421
   b. 80000 + _____ + 800 + 9000 + 8 + 40 = 689848
9. Find the missing place value from a 5-digit number
   a. 40000 + 100 + 0 + _____ + 1 = 431011
   b. 20000 + _____ + 90 + 2000 + 1 = 22391

10. a. What digit is in the Ones place in the number 99,561?
    b. What digit is in the Ones place in the number 855,886?

11. a. What digit is in the Thousands place in the number 261,315?
    b. What digit is in the Thousands place in the number 4,954?

12. a. What digit is in the Hundreds place in the number 752?
    b. What digit is in the Ten Thousands place in the number 38,591?

2 - ADDITION AND SUBTRACTION

1.

$$\begin{array}{r} 26{,}003 \\ +\ 73{,}905 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 69{,}030 \\ +\ 30{,}445 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 20{,}286 \\ +\ 47{,}010 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 74{,}030 \\ +\ 22{,}200 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 30{,}481 \\ +\ 29{,}304 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 16{,}732 \\ +\ 11{,}040 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 51{,}011 \\ +\ 12{,}527 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 21{,}332 \\ +\ 20{,}531 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 37{,}336 \\ +\ 51{,}523 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 37{,}777 \\ +\ 62{,}210 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 13{,}100 \\ +\ 81{,}301 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 71{,}107 \\ +\ 11{,}561 \\ \hline \end{array}$$

13.

$$\begin{array}{r} 22{,}111 \\ +\ 34{,}036 \\ \hline \end{array}$$

14.

$$\begin{array}{r} 82{,}620 \\ +\ 15{,}119 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 22{,}161 \\ +\ 43{,}522 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 35{,}142 \\ +\ 10{,}221 \\ \hline \end{array}$$

1.	2.	3.	4.	5.
4265	8991	5125	4764	5255
- 3086	- 6017	- 5051	- 3933	- 1946

6.	7.	8.	9.	10.
4417	3568	4770	4117	5042
- 1453	- 1265	- 4498	- 3403	- 2789

11.	12.	13.	14.	15.
3887	6667	3634	8949	8306
- 2367	- 1416	- 3170	- 6068	- 6219

TABLES

TABLES - FROM 2 - 16 to be written twice.

1. Anita collects 3473 seashells. Her father gives her 2566 more. How many seashells does she have in all?
2. John has 6452 cards. Mary has 6364 cards. If Mary gives all of her cards to John, then how many cards will John have in all?
3. If there are 5666 pencils in a box and Bala puts 4894 more pencils inside, then how many pencils are there in the box?
4. Hrishi has 9853 marbles. He gets 8916 more from his friend. How many marbles does he have in all?
5. If there are 6779 blocks in a box and Latha puts 7615 more blocks inside, then how many blocks are there in the box?
6. Joseph has 5619 oranges. John has 6567 oranges. If John gives all of his oranges to Joseph, then how many oranges will Joseph have in all?
7. Kala has 7816 blocks. Mala has 1989 blocks. If Kala gives all of her blocks to Mala, then how many blocks will Mala have in all?
8. Jim has 6897 candies. Kim gives him 3788 more. How many candies does Jim have in all?
9. Jimmy has 5787 apples. He finds another 9675. How many apples does he have in all?
10. Nancy starts with 9561 bottle caps. She finds another 8348. How many bottle caps does Nancy end with?
11. Tom collects 8344 apples. His father gives him 2097 more. How many apples does he have in all?
12. There are 8457 oranges. 6438 oranges more are added. How many are there total?
13. If there are 1237 blocks in a box and Tim puts 3562 more blocks inside, how many blocks are in the box in all?
14. Banu has 3498 apples. She gets 3789 more from her friend. Then how many apples does she have in all?
15. If there are 4167 erasers in a box and Sofia puts 6676 more erasers inside, how many erasers are in the box now?

3 – MULTIPLICATION AND DIVISION

1. $2{,}951 \times 17$

2. $8{,}103 \times 16$

3. $9{,}163 \times 95$

4. 5,201 × 43

5. 3,613 × 76

6. 9,387 × 82

7. 4,132 × 45

8. 9,451 × 11

9. 8,038 × 83

Find the quotient and the remainder.

1. $11\overline{)943}$

2. $22\overline{)912}$

3. $23\overline{)540}$

4. $36\overline{)536}$

5. $92\overline{)298}$

6. $46\overline{)296}$

7. $86\overline{)309}$

8. $48\overline{)961}$

1. Alex saves Rs. 8650 per month. How much does he saves in 12 months?
2. The price of a Barbie doll is Rs. 435. What is the price of 19 dolls?
3. There are 789 pages on a book. How many pages are there on 14 books?
4. In 5 months I saved Rs. 3000. How much money did I save per month?
5. There are 96 cars parked in the mall. Each car has 4 wheels. How many wheels are there in all?
6. How many weeks are there in 105 days?
7. A monkey eats 112 bananas per day. How many bananas does it eat in 67 days?
8. Mike packed 1350 apples equally into bags of 5 apples. How many bags did he need?
9. There are 88 children in a class. Each child has 18 books. How many books are there altogether?
10. I spend Rs. 624 per month on lunches. How much do I spend on lunches per year?

Give the answers using BODMAS rule.

1. $75 \times (4 - 2) =$
2. $12 - 4 \times 3 =$
3. $72 - 4 \times 15 =$
4. $12 - (8 - 2) =$
5. $38 + 4 \times 2 =$
6. $15 + (12 - 4) =$
7. $24 \times (4 \times 2) =$
8. $12 + 8 \times 2 =$
9. $30 \times 4 - 12 =$
10. $10 + 3 - 3 =$
11. $12 - 10 \times 2 =$
12. $23 + 8 \times 12 =$

4 – FACTORS AND MULTIPLES

Find the factors for the following numbers.

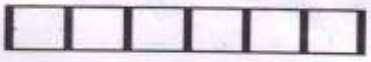
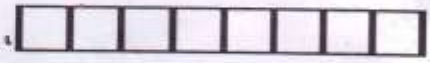
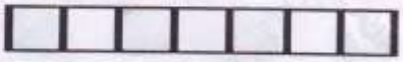
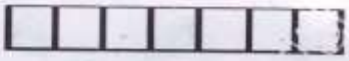
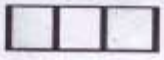
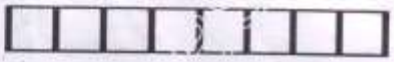
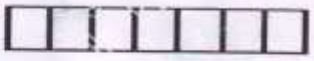
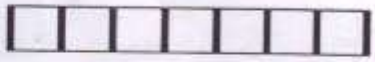
1. 21, -------, ----------, ---------, ----------
2. 16, ---------, ---------, ---------, ----------, ----------
3. 14, ---------, ---------, ---------, ----------
4. 22, ---------, ---------, ---------, ----------
5. 30, ---------, ---------, ---------, ----------, ---------, ---------, ---------, ----------
6. 6, ---------, ---------, ---------, ----------
7. 33, ---------, ---------, ---------, ----------
8. 27, ---------, ---------, ---------, ----------
9. 28, ---------, ---------, ---------, ----------, ---------, ---------
10. 45, ---------, ---------, ---------, ----------, ---------, ---------
11. 24, ---------, ---------, ---------, ----------, ---------, ----------, ---------, ---------
12. 36, ---------, ---------, ---------, ----------, ---------, ----------, ---------, ---------
13. 3, ---------, ----------
14. 9, ---------, ---------, ---------
15. 42, ---------, ---------, ---------, ----------, ---------, ----------, ---------, ---------

Find three common factors for the following numbers:

1. 3 and 4
2. 2 and 5
3. 2 and 6
4. 3 and 5
5. 8 and 6
6. 3 and 7
7. 6 and 7
8. 4 and 9
9. 9 and 6
10. 2 and 9
11. 3 and 8
12. 5 and 7

5 – FRACTIONS

Shade the Figure for the Fraction:

1. $\frac{1}{6}$ 
2. $\frac{2}{8}$ 
3. $\frac{4}{7}$ 
4. $\frac{1}{5}$ 
5. $\frac{3}{7}$ 
6. $\frac{2}{3}$ 
7. $\frac{6}{8}$ 
8. $\frac{2}{4}$ 
9. $\frac{2}{7}$ 
10. $\frac{6}{7}$ 

Identify the Type of Fraction:

1. $\frac{4}{5}$ = _____
2. $\frac{8}{3}$ = _____
3. $8\frac{1}{8}$ = _____
4. $\frac{7}{11}$ = _____
5. $\frac{2}{13}$ = _____
6. $3\frac{1}{4}$ = _____
7. $\frac{9}{4}$ = _____
8. $9\frac{10}{11}$ = _____
9. $\frac{3}{8}$ = _____
10. $\frac{8}{15}$ = _____
11. $\frac{1}{2}$ = _____
12. $\frac{7}{2}$ = _____

Circle the Proper Fraction in the Box Given Below:

1.

$\frac{2}{3}$	$\frac{7}{6}$	$8\frac{2}{7}$	$\frac{6}{17}$	$\frac{8}{5}$

2.

$9\frac{1}{3}$	$\frac{8}{7}$	$2\frac{1}{9}$	$\frac{11}{4}$	$\frac{9}{10}$

3.

$\frac{12}{14}$	$5\frac{4}{7}$	$\frac{10}{6}$	$\frac{4}{5}$	$\frac{9}{13}$

4.

$8\frac{1}{11}$	$\frac{15}{16}$	$\frac{4}{8}$	$\frac{3}{5}$	$6\frac{6}{7}$

Circle the Improper Fractions:

5.

$2\frac{3}{4}$	$\frac{8}{3}$	$\frac{6}{7}$	$\frac{5}{2}$	$\frac{8}{9}$

6.

$2\frac{3}{8}$	$7\frac{1}{6}$	$\frac{10}{6}$	$\frac{7}{2}$	$\frac{1}{6}$

7.

$\frac{3}{4}$	$\frac{9}{7}$	$9\frac{1}{2}$	$\frac{4}{3}$	$8\frac{1}{4}$

8.

$\frac{6}{5}$	$\frac{3}{8}$	$\frac{6}{9}$	$\frac{9}{7}$	$\frac{15}{14}$

Circle the Mixed Numbers:

9.

$\frac{7}{11}$	$3\frac{1}{9}$	$\frac{11}{3}$	$\frac{9}{8}$	$\frac{9}{10}$

10.

$6\frac{8}{9}$	$\frac{1}{2}$	$\frac{4}{3}$	$\frac{12}{13}$	$4\frac{4}{5}$

11.

$2\frac{7}{8}$	$\frac{4}{7}$	$\frac{3}{5}$	$\frac{7}{5}$	$\frac{6}{12}$

12.

$5\frac{2}{5}$	$\frac{10}{7}$	$9\frac{5}{6}$	$\frac{2}{7}$	$1\frac{1}{9}$

6.

$2\frac{3}{8}$	$7\frac{1}{6}$	$\frac{10}{6}$	$\frac{7}{2}$	$\frac{1}{6}$

7.

$\frac{3}{4}$	$\frac{9}{7}$	$9\frac{1}{2}$	$\frac{4}{3}$	$8\frac{1}{4}$

8.

$\frac{6}{5}$	$\frac{3}{8}$	$\frac{6}{9}$	$\frac{9}{7}$	$\frac{15}{14}$

Circle the Mixed Numbers:

9.

$\frac{7}{11}$	$3\frac{1}{9}$	$\frac{11}{3}$	$\frac{9}{8}$	$\frac{9}{10}$

10.

$6\frac{8}{9}$	$\frac{1}{2}$	$\frac{4}{3}$	$\frac{12}{13}$	$4\frac{4}{5}$

11.

$2\frac{7}{8}$	$\frac{4}{7}$	$\frac{3}{5}$	$\frac{7}{5}$	$\frac{6}{12}$

12.

$5\frac{2}{5}$	$\frac{10}{7}$	$9\frac{5}{6}$	$\frac{2}{7}$	$1\frac{1}{9}$

Add the Fractions:

1. $\frac{2}{3}+\frac{2}{3}=$
2. $\frac{4}{9}+\frac{4}{9}=$
3. $\frac{4}{5}+\frac{3}{5}=$
4. $\frac{2}{4}+\frac{3}{4}=$
5. $\frac{2}{7}+\frac{6}{7}=$
6. $\frac{5}{8}+\frac{5}{8}=$
7. $\frac{3}{8}+\frac{1}{8}=$
8. $\frac{3}{6}+\frac{1}{6}=$
9. $\frac{1}{2}+\frac{1}{2}=$
10. $\frac{4}{6}+\frac{2}{6}=$
11. $\frac{5}{10}+\frac{2}{10}=$
12. $\frac{3}{12}+\frac{5}{12}=$

Subtract the Fractions:

1. $\frac{12}{5} - \frac{6}{5} =$

2. $\frac{21}{9} - \frac{10}{9} =$

3. $\frac{12}{5} - \frac{11}{5} =$

4. $\frac{29}{14} - \frac{23}{14} =$

5. $\frac{20}{17} - \frac{19}{17} =$

6. $\frac{25}{18} - \frac{19}{18} =$

7. $\frac{41}{12} - \frac{19}{12} =$

8. $\frac{33}{16} - \frac{29}{16} =$

9. $\frac{18}{12} - \frac{14}{12} =$

10. $\frac{44}{16} - \frac{29}{16} =$

11. $\frac{49}{10} - \frac{20}{10} =$

12. $\frac{40}{12} - \frac{39}{12} =$

6 – DECIMALS

Write each number in standard form. First is done for you.

1. (7 x 100) + (6 x 10) + (9 x 1) + (2 x 1/10) + (6 x 1/100) = 769.26
2. (3 x 100) + (3 x 10) + (7 x 1) + (4 x 1/10) + (3 x 1/100) =
3. (2 x 100) + (1 x 1) + (8 x 1/10) + (4 x 1/100) =
4. (6 x 100) + (4 x 1) + (5 x 1/10) + (3 x 1/100) =
5. (8 x 100) + (7 x 10) + (8 x 1) + (6 x 1/10) + (6 x 1/100) =
6. (1 x 10) + (8 x 1) + (7 x 1/10) + (2 x 1/100) =
7. (4 x 100) + (2 x 10) + (5 x 1/10) =
8. (5 x 100) +(1 x 10) + (2 x 1) + (3 x 1/10) =
9. (9 x 100) + (5 x 10) + (3 x 1) + (1 x 1/10) + (5 x 1/100) =
10. (5 x 1) + (9 x 1/10) + (7 x 1/100) =
11. (8 x 100) + (4 x 10) + (1 x 1/10) + (9 x 1/100) =
12. (4 x 100) + (3 x 10) + (2 x 1) + (1 x 1/10) =

Add:

a) 2.48 + 8.72 = ... b) 9.46 + 0.18 = ... c) 6.24 + 4.56 = ...

d) 8.17 + 0.4 = ... e) 5.63 + 7.66 = ... f) 6.98 + 6.96 = ...

g) 6.68 + 3.41 = ... h) 4.39 + 0.86 = ... i) 7.29 + 5.22 = ...

j) 0.91 + 0.34 = ... k) 7.12 + 9.75 = ... l) 5.93 + 5.06 = ...

m) 0.99 + 1.46 = ... n) 4.64 + 3.89 = ... o) 7.26 + 5.93 = ...

p) 1.38 + 9.13 = ... q) 2.73 + 6.43 = ... r) 6.17 + 4.44 = ...

s) 0.88 + 4.55 = ... t) 0.98 + 6.29 = ... u) 0.03 + 8.02 = ...

v) 2.08 + 8.19 = ... w) 5.95 + 2.03 = ... x) 6.47 + 7.98 = ...

Subtract:

a) 6.15 – 0.98 = ... b) 5.2 – 1.26 = ... c) 7.36 – 7.28 = ...

d) 3.41 – 0.27 = ... e) 0.32 – 0.25 = ... f) 2.35 – 0.24 = ...

g) 7.89 – 3.26 = ... h) 2.25 – 0.82 = ... i) 0.82 – 0.57 = ...

j) 1.76 – 1.34 = ... k) 4.31 – 2.43 = ... l) 7.9 – 2.55 = ...

m) 3.55 – 0.79 = ... n) 3.06 – 0.11 = ... o) 2.46 – 0.32 = ...

p) 1.94 – 0.4 = ... q) 7.09 – 0.17 = ... r) 5.08 – 3.5 = ...

7 – LENGTH, MASS, MONEY AND CAPACITY

Convert the following. [1L = 1000 ml, 1 kg = 1000 g, 1m = 100 cm, 1m = 1000 mm]

1. 2.47 cm = _____ mm
2. 80 m = _____ km
3. 20 m = _____ mm
4. 765 g = _____ kg
5. 19 kg = _____ g
6. 0.0035 L = _____ ml
7. 1.1 cm = _____ mm
8. 999 mm = _____ m
9. 12 m = _____ cm
10. 19 mm = _____ m
11. 2.25 kg = _____ g
12. 9905 ml = _____ L

1. How many paise are there in Rs 5.39?
2. How many rupees are there in 874 paise?
3. How many paise are there in Rs 56.80?
4. How many rupees are there in 9876 paise?
5. How many paise are there in Rs 100?
6. How many rupees are there in 270 paise?
7. How many paise are there in Rs 67?
8. How many rupees are there in 2540 paise?
9. At the first store, Harish spent Rs 8.92. At the next store, he spent Rs 12.44. How much money did he spend at all?
10. The cost of a pair of shoes is Rs 350.20 and the cost of goggles is Rs 79.99. How much total money spent on shoes and goggles?

Add :

1) Rs. 275.56. Rs. 398.43. Rs236.39.

2) Rs. 564.00.Rs. 110.48. Rs. 277.68.

Subtract:-

1) Rs. 890.54- Rs. 354.87

2) Rs. 483.18- Rs. 299.36

8 – TIME

Write the times and the differences in time for each pair of clocks below.

1.

Time: _____ Time: _____ Time Difference: _____

2.

Time: _____ Time: _____ Time Difference: _____

3.

Time: _____ Time: _____ Time Difference: _____

4.

Time: _____ Time: _____ Time Difference: _____

5.

Time: _____ Time: _____ Time Difference: _____

1. The day with maximum number of alphabets is _____.

2. The number of day(s) between Monday and Friday is _____.

3. The two consecutive days starts with same alphabet are _____ and _____.

4. The day before Tuesday is _____.

5. The tenth month of the year is _____.

6. The month with minimum number of days is _____.

7. The number of months starts with the letter 'J' is _____.

8. The number of months with 30 days is _____.

Write these dates in numbers for question 9-10.

9. 1 June 2006 _____

10. 10 Aug 2007 _____

11. If Anil starts at 6:45 p.m. and take 16 hours and 39 minutes to go to place A, then at what time he will reach at place A?

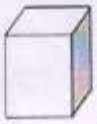
12. If Amit takes 16 hours and 45 minutes and reaches at 11:20 p.m., then at what time did he start?

9 – GEOMETRICAL SHAPES

1. This shape has three equal sides. The name of this shape is ____.
2. This shape has four sides. The name of this shape is ____.
3. This shape has seven sides. The name of this shape is ____.
4. This shape has three sides, none equal in length. The name of this shape is ____.

Name the 3D-figures:

5.  _____

6.  _____

7. A Triangle has ____ sides.
8. An Octagon has ____ sides.

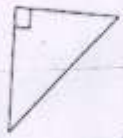
Write the name of the shapes shown below.

9.  _____

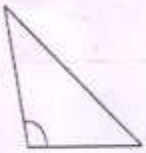
10.  _____

Classify each triangle using its angle properties.

1.



2.



3.

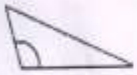
4.

5.

6.

7.

8.



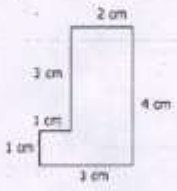
9.

10.

10 – PERIMETER AND AREA

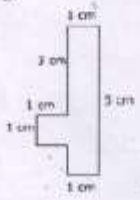
Find the perimeter of the following shapes if 1 square = 1 cm.

1.



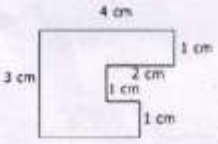
Perimeter: ----------

2.



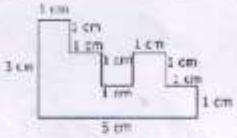
Perimeter: ----------

3.



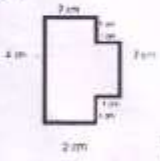
Perimeter: ---------

4.



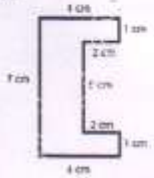
Perimeter: -----

5.



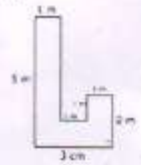
Perimeter: ----------

6.



Perimeter: ----------

7.



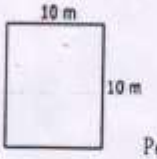
Perimeter: ----------

8.

Perimeter: ----------

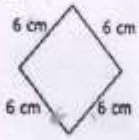
Find the perimeter of the following shapes.

1.



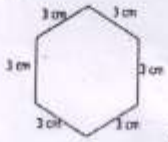
Perimeter: ----------.

2.



Perimeter: ----------.

3.



Perimeter: ----------.

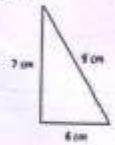
4.

Perimeter: ----------.

5.

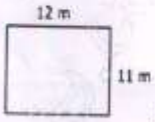
Perimeter: -------.

6.



Perimeter: ----------.

7.

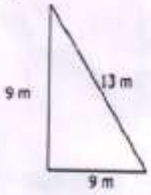


Perimeter: ----------.

8.

Perimeter: ----------.

9.



Perimeter: ----------.

10.

Perimeter: ---------.

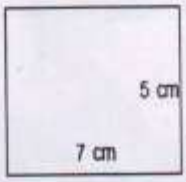
Find the perimeter and area of the following figure.

1. 

Perimeter = ----------; Area = ----------

2. 

Perimeter = ----------; Area = ----------

3. 

Perimeter = ----------; Area = ----------

4. 

Perimeter = ----------; Area = ----------

5. 

Perimeter = ----------; Area = ----------

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