

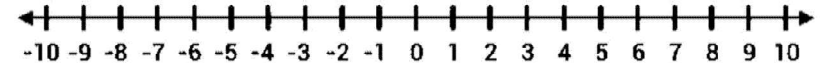
- How many newspapers are distributed in the residential colony daily ?
- Which newspaper is read by most of the people in the colony ?
- Which newspaper is read by least number of people in the colony?

WEEK – 7

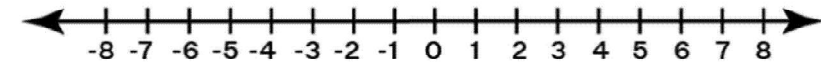
- What should be added to the sum of 0.314 and 3.085 to get 5 ?
- Subtract the difference of 57.05 and 38.87 from their sum.
- Find the LCM of the following :
 - 34, 40, 32
 - 45, 65, 105
- Find the HCF of the following :
 - 400 and 535
 - 380, 875, 1340
- Which of the following pair is co-prime ?
 - 87, 96
 - 112, 141
 - 196, 240
- Compare and identify the smallest fraction :
 - $\frac{7}{13}, \frac{7}{17}$
 - $\frac{13}{21}, \frac{6}{19}$
- Change the following group of fractions into like fractions :
 - $\frac{2}{7}, \frac{7}{8}, \frac{5}{4}, \frac{9}{16}$
 - $\frac{4}{5}, \frac{7}{6}, \frac{6}{7}, \frac{9}{10}$
- Add the following :
 - $\frac{5}{9} + 4\frac{6}{12}$
 - $\frac{7}{16} + 3\frac{5}{8} + 7\frac{1}{2}$
- Subtract the following :
 - $\frac{5}{4} - \frac{8}{9}$
 - $5\frac{1}{9} - 3\frac{2}{7}$
- Simplify the following :
 - $2\frac{1}{4} + 3\frac{1}{2} - 3\frac{5}{8}$
 - $5 - \frac{5}{6} - 2\frac{4}{5}$

WEEK – 1 : INTEGERS

- Use the number line to add the following integers :



- $3 + 4$
 - $5 + (-4)$
 - $(-4) + 6$
 - $(-1) + (-3)$
- Find the sum of the following :
 - $(-29) + (-10)$
 - $36 + 24$
 - Use the number line to subtract the following :

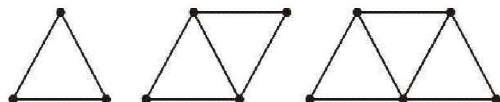


- $(-3) - 4$
 - $(-3) - (-4)$
 - $7 - 5$
 - $(-2) - (-6)$
- Subtract the following :
 - $(-42) - 21$
 - $24 - 50$
 - $23 - (-23)$
 - $(-63) - (-3)$
 - $20 + (-25) = \underline{\hspace{2cm}}$
 - $[13 + (-12)] + \underline{\hspace{2cm}} = 13 + [(-12) + (-7)]$.
 - Verify $a - (-b) = a + b$, for $a = 21$ and $b = 11$.
 - $(-a) + b = b + \text{additive inverse of } \underline{\hspace{2cm}}$.
 - $(-1) + (-2) + (-3) + (-9) + (-8) = \underline{\hspace{2cm}}$.
 - $42 \times (-30) = \underline{\hspace{2cm}}$.
 - $(-15) \times 17 = \underline{\hspace{2cm}}$.
 - $(-20 \times -5) = \underline{\hspace{2cm}}$.
 - $180 \div (-5) = \underline{\hspace{2cm}}$.
 - $(-72) \div (-9) = \underline{\hspace{2cm}}$.
 - $(-98) \div 14 = \underline{\hspace{2cm}}$.

- 16) $(-640) \div (-16) = \underline{\hspace{2cm}}$.
- 17) $\frac{(-1) \times (-1) \times (-1) \times \dots \times (-1)}{(15 \text{ times})} = \underline{\hspace{2cm}}$
- 18) $\frac{-5 + 5 - 5 + 5 \dots + 5}{(20 \text{ times})} = \underline{\hspace{2cm}}$
- 19) $[(-2000) \div (-100)] \times (-6)$
- 20) $189461 \times 99 - (-189461)$

WEEK – 2 : ALGEBRA

- 1) Write the algebraic expressions for the following.
- A number multiplied by itself and decreased by 8.
 - Double of a number increased by 3.
 - 7 minus a number multiplied by 3.
- 2) Write down the next 5 terms of the pattern given below and work out the general formula connecting the variables x and y .



Triangles	1	2	3	4	5	6	7	8 x
Matchsticks	3	5	7					 y

- 3) Complete the given tabular form.

n	0	3	4	-2	-5
3n + 2					

- 4) From the given set of algebraic expressions, list the variable terms and constants.
- a) $7xy + 3x + 4y + 7$
variable terms _____, constants _____.

Monday	
Tuesday	
Wednesday	

- On which day were the least number of vehicles fined ?
 - On which day were the maximum number of vehicles fined ?
- 3) Draw the frequency table for the following data :
8, 20, 17, 11, 19, 20, 12, 17, 20, 11, 12, 19, 8
- 4) Aparna collected the data about the favourite subject of the students of the students of a class in her school. Below are her observations :
Hindi, Maths, Science, English, Hindi, Maths, Science, English, Hindi, Maths, Science, English, Hindi, English, Maths, English, English, Hindi, English, Hindi, Maths, English, Maths, English, Maths, Maths, English, Maths, Maths, English, Maths, English.

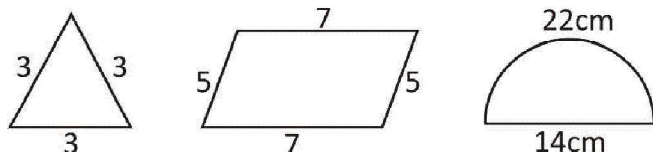
Draw the frequency distribution table and answer the following.

- Which is the most popular subject ?
 - Which is the least popular subject ?
 - How many students like Hindi ?
 - How many students like Maths ?
- 5) The number of different newspapers distributed in a residential colony is shown in the form of pictograph below.

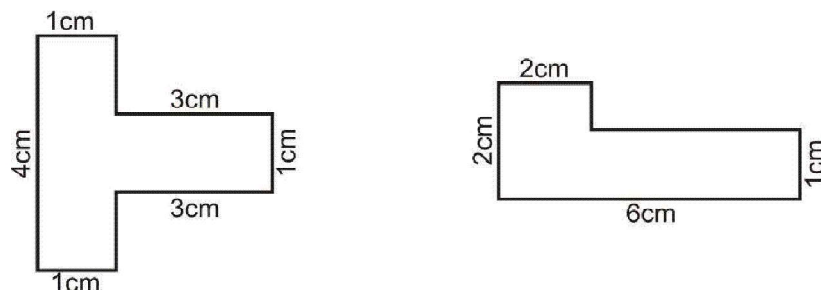
Answer the questions based on the given pictograph :

The Hindu	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Hindustan Times	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Amar Ujala	<input type="checkbox"/>
Business standard	<input type="checkbox"/> <input type="checkbox"/>
The economic times	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

- 4) Find the perimeter of an isosceles triangle with base 7 cm and each of the equal sides 10 cm.
- 5) Find the perimeter of a triangle with sides 5 cm, 6 cm and 9 cm.
- 6) Find the area of a square with side 13 cm.
- 7) Find the area of a rectangle with length 18 cm and breadth 15 cm.
- 8) Find the perimeter of the following figures.



- 9) Find the area of the following figures.



- 10) The side of a square field is 50 m long. Then find the area of square field.

WEEK – 6 : DATA HANDLING

- 1) The value of |||| is _____.
- 2) Look at the tally chart and answer the following questions :

Day	Number of vehicles fined
Sunday	

- b) $20x + 30y + 14$
variable terms _____, constants _____.

- 5) Identify terms which contain x and y give the co-efficient of x.

- a) $y^2x^2 + x$ b) $14y^2 - 8yx$ c) $x + 2 + y$

	Expressions	Terms with factor x	Co-efficient of x
a)			
b)			
c)			

- 6) Identify like terms in the following :
 $-x^2y^2, -4yx^2, 18x^2, 12xy^2, 17y, -11x^2, -1000x, -121xy, 200x^2y,$
 $-16x^2, y^2, 2x^2y^2, 3x^2.$
- 7) Give an example of a pair of unlike terms.
- 8) Classify the following expressions as monomials, binomials or trinomials.

- a) $4u^2 \div 5v$ b) $25c + \frac{1}{5}$ c) $36x + 12y^3 + 6z$

WEEK – 3 : DECIMALS

- 1) Complete the following table.

Decimals	Thousands	Hundreds	Tens	Ones	Tenths
32.5					
842.7					
1300.4					
9208.9					

- 2) Represent the following decimals on number line.
a) 2.4 b) 0.7 c) 3.8
- 3) Convert the following decimals into the simplest fractions.
a) 0.5 b) 0.008 c) 0.25

- 4) Using the place value of the digits, write the following in the decimal form.
- 3 hundreds 3 tens 3 hundredths _____.
 - 1 thousand 8 tens 4 thousandths 5 hundredths _____.
 - 5 tenths 3 hundredths 4 ten thousandths _____.
- 5) Write in the expanded form
- 26.47 b) 340.003 c) 821.982
- 6) Fill in the blanks using <, > or =
- 5.46 _____ 9.84
 - 102.07 _____ 102.06
 - 4.651 _____ 4.6510
 - 0.101 _____ 0.110
- 7) Arrange the following decimals in ascending order and descending order.
- 5.060, 5.660, 5.066, 5.006, 5.606
 - 78.132, 70.321, 70.123, 70.312, 71.103
- 8) Convert the following :
- 8 mm = _____ cm
 - 28 km 876 m = _____ km
 - ₹ 456 = _____ paise.
 - 28 kg = _____ grams.
- 9) Add the following decimals :
- $1.5 + 3 + 0.25$
 - $0.002 + 1.95 + 87$
 - $33.016 + 0.1 + 65.84$
- 10) Subtract the following :
- $11.75 - 9.806$
 - $35.137 - 21.08$
 - $80 - 45.039$

WEEK – 4 : RATIOS AND PROPORTIONS

- 1) Fill in the blanks :
- $\frac{6}{15} = \frac{\square}{45} = \frac{2}{\square} = \frac{\square}{75}$
 - $\frac{\square}{32} = \frac{5}{8} = \frac{\square}{\square} = \frac{30}{\square}$
- 2) Check whether the following numbers are in proportion or not.
- 18 : 45 :: 12 : 30
 - 84 : 21 :: 20 : 6
- 3) Which is a better buy 9 kg potatoes for ₹ 225 or 12 kg potatoes for ₹ 288 ?
- 4) Which of the following ratios are equivalent ?
- 1 : 2 and 2 : 4
 - 40 km : 20 m and 4000 : 80
- 5) Out of 32 students, 16 students are absent. What percent of the students are absent ?
- 6) Find two equivalent ratios of
- 1 : 2
 - 5 : 3
- 7) Divide one month profit of ₹ 10,000 between Ramesh and Ravi in a ratio 1 : 4.
- 8) Are 15, 45, 40, 120 in proportion ?
- 9) If the cost of 1 dozen pen is ₹ 60, what is cost of 60 such pens ?
- 10) If $63 : x = 51 : 85$, then the value of x is what ?

WEEK – 5 : MENSURATION

- Find the perimeter of a square of side 7 cm.
- Find the perimeter of a rectangle with length 30 cm and breadth 15 cm.
- Find the perimeter of an equivalent triangle with side 14 cm.