

S.D. PUBLIC SCHOOL

BU BLOCK PITAMPURA

ASSIGNMENTS

CLASS 8

Task 1: Complete Thinking book Worksheets for Unit 2: Linear equations in One variable.

Task 2: Solve the given assignments on A4 sheet and submit in a stick file.

Linear Equations

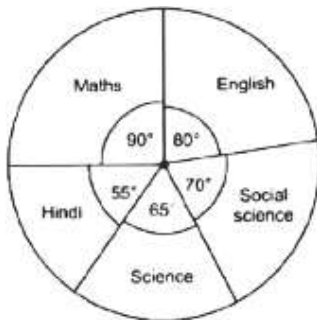
1. Solve $x/3 + 1/5 = x/2 - 1/4$
2. Show that $x = 4$ is a solution of the equation $x + 7 - 8x/3 = 17/6 - 5x/8$
3. Find x for the equation: $(2 + x)(7 - x)/(5 - x)(4 + x) = 1$
4. A number is such that it is as much greater than 45 as it is less than 75. Find the number.
5. Divide 40 into two parts such that $1/4$ th of one part is $3/8$ th of the other.
6. $x + 3x/2 = 35$. Find x .
7. A is twice old as B. Five years ago A was 3 times as old as B. Find their present ages.
8. Solve : $(x + 3)/6 + 1 = (6x - 1)/3$
9. The digits of a 2-digit number differ by 5. If the digits are interchanged and the resulting number is added to the original number, we get 99. Find the original number.
10. Solve : $5x - 3 = 3x + 7$

Data Handling

1. Draw a pie-chart for the following data of expenditure on various items in a family.

Item	Food	Clothing	Rent	Education	Miscellaneous
Expenditure	15000	5000	14000	20000	6000

2. The following pie-chart represents the marks scored by a students. If he obtained 540 as total marks, answer the following questions:



- (i) In which subject did the student score 120 marks?
- (ii) What is the difference in the marks obtained in Maths and English?

(iii) In which subject did he get minimum marks?

3. A die is thrown. What is the probability of getting:

(i) an even number?

(ii) an odd number?

(iii) A number between 3 and 6?

4. What is the probability of a number selected from the numbers 1, 2, 3,, 20 such that it is a prime number?

5. A bag contains 3 blue and 2 red balls. A ball is drawn at random. What is the probability of drawing a red ball?

Rational Numbers

1. Associative property is not followed by which type of numbers?

2. ____ is the identity for the addition of rational numbers.

(a) 1

(b) 0

(c) -1

(d) -1

3. What is the multiplicative identity for rational numbers.

4. What is the additive inverse of $\frac{3}{5}$?

5. How many reciprocals does zero have?

6. Write.

(i) The rational number that does not have any reciprocal at all.

(ii) The rational numbers those are equal to their reciprocals.

(iii) The rational number that is equal to its negative.

7. Give a rational number which when added to it gives the same number.

8. By what rational number should $\frac{22}{7}$ be divided, to get the number $-\frac{11}{24}$?

9. Solve:

i) $\frac{2}{7} \times \frac{-2}{7} \times \frac{42}{14} \times \frac{21}{84}$

ii) $\frac{2}{3} \left(\frac{4}{5} + \frac{1}{2} \right)$

10. Simplify in lowest term:

i) $-1\frac{15}{5}$ ii) $\frac{1260}{20}$