Q1. Ekta earns Rs. 3000 in 10 days. How much will she earn in 30 days? **2 Marks**

Q2. Think and mark the positions as directed- **2 Marks**
Mark 'A' at the point where Akshi will be after she ran 250m.

Q3. Write the following using literals, numbers and signs of basic operations: **2 Marks**
The product of x an

Q4. Translate the following statements into an equation, using x as the variable: **2 Marks**
Two-third of number is 12.

Q5. On a number line, draw lines of lengths $\frac{1}{10}$, $\frac{3}{10}$ and $\frac{4}{5}$. **2 Marks**

Q6. Write the following mixed numbers as fractions: **2 Marks**
$7\frac{2}{3}$

Q7. If x = 1, y = 2 and z = 5, find the value of: **2 Marks**
$2x^2 - 3y^2 + z^2<$

Q8. How many three-digit prime numbers can you make using each of 2, 4 and 5 once? **2 Marks**

Q9. Evaluate the following using tokens. **2 Marks**
(–5) – (+9)

Q10. Tina had 20m 5cm long cloth. She cuts 4m 50cm length of cloth from this for making a curtain. How much cloth is left with her? **2 Marks**

Q11. For the last grid above, find more than one way of filling the numbers to get border sum –4. **2 Marks**

Q12. Try to find out the most popular game among your classmates. **2 Marks**

Q13. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can measure the diesel of the three containers exact number of times **2 Marks**

Q14. What is the cost of tiling a rectangular plot of land 500m long and 200m wide at the rate of Rs. 8 per hundred sq m.? **2 Marks**

Q15. Write an equation for which 0 is a solution. **2 Marks**

Q16. Compare the following fractions and justify your answers: **2 Marks**
$\frac{12}{5}$, $\frac{8}{5}$

Q17. Fill a table such that the cell having the second largest number is not a supercell but the second smallest number is a super cell. Is it possible? **2 Marks**

Q18. Two sides of a triangle are 12cm and 14cm. The perimeter of the triangle is 36cm. What is its third side? **2 Marks**

Q19. What is the length of the wooden strip required to frame a photograph of length and breadth 32cm and 21cm respectively? **2 Marks**

Q20. Translate the following statements into an equation, using x as the variable: **2 Marks**
9 added to twice a number gives 13.

Q21. Carry out the following subtractions using Brahmagupta's method: **2 Marks**
$\frac{2}{5} - \frac{4}{15}$

Q22. A machine, on an average, manufactures 2, 825 screws a day. How many screws did it produce in the month of January 2006? **2 Marks**

Q23. How many tiles whose length and breadth are 12cm and 5cm respectively will be needed to fit in a rectangular region whose length and breadth are respectively: **2 Marks**
70cm and 36cm

Q24. Bajinder runs ten times around a square track and covers 4km. Find the length of the track. **2 Marks**

Q25. Evaluate the following differences using tokens. Check that you get the same result as with other methods you now know: **2 Marks**

(–2) – (–6)

Q26. Find all multiples of 40 that lie between 310 and 410. **2 Marks**

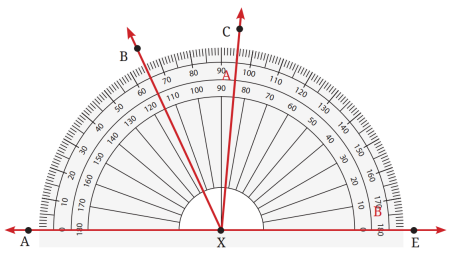
Q27. Carry out the following subtractions using Brahmagupta's method: **2 Marks**

$\frac{5}{6} - \frac{4}{9}$

Q28. If x = 1, y = 2 and z = 5, find the value of: **2 Marks**

3x – 2y + 4z

Q29. Find the degree measures of $\angle \mathrm{BXE}, \angle \mathrm{CXE}, \angle \mathrm{AXB}$ and $\angle \mathrm{BXC}$. **2 Marks**



Q30. If x = 1, y = 2 and z = 5, find the value of: **2 Marks**

xy + yz - zx

Q31. Translate the following statements into an equation, using x as the variable: **2 Marks**

1 subtracted from one-third of a number gives 1.

Q32. A table-top measures 2m by 1m 50cm. What is its area in square metres? **2 Marks**

Q33. If x = 1, y = 2 and z = 5, find the value of: **2 Marks**

$x^2 + y^2 + z^2$

Q34. Find the cost of fencing a square park of side 250m at the rate of Rs. 20 per metre. **2 Marks**

Q35. Write the following fractions as mixed fractions: **2 Marks**

$\frac{9}{5}$

Q36. If a note book costs Rs p and a pencil costs Rs 3, then the total cost (in Rs) of two note books and one pencil. **2 Marks**

Q37. The teacher distributes 5 pencils per student. Can you tell how many pencils areneeded, given the number of students? (Use s for the number of students). **2 Marks**

Q38. Oranges are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the oranges from it fill two smaller boxes and still 10 oranges remain outside. If the number of oranges in a small box are taken to be x, what is the number of oranges in the larger box? **2 Marks**

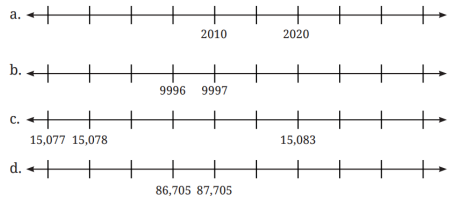
Q39. The perimeter of an equilateral triangle, if side of the triangle is m. **2 Marks**

Q40. The length, breadth and height of a room are 825cm, 675cm and 450cm respectively. Find the longest tape which can measure the three dimensions of the room exactly. **2 Marks**

Q41. Write two integers whose sum is less than both the integers. **2 Marks**

Q42. On my last birthday, I weighed 40kg. If I put on m kg of weight after a year, what is my present weight? **2 Marks**

Q43. Identify the numbers marked on the number lines below, and label the remaining positions. **2 Marks**



Put a circle around the smallest number and a box around the largest number in each of the sequences above.

Q44. Namita travels 20km 50m every day. Out of this she travels 10km 200m by bus and the rest by auto. How much distance does she travel by auto? **2 Marks**

Q45. Fill a table such that the cell having the second largest number is not a supercell. **2 Marks**

Q46. Evaluate the following differences using tokens. Check that you get the same result as with other methods you now know: **2 Marks**

(+9) – (+12)

Q47. Starting with 0, players alternate adding numbers between 1 and 3. The first person to reach 22 wins. What is the winning strategy now? **2 Marks**

Q48. Express the following fractions in lowest terms: **2 Marks**

$\frac{525}{112}$

Q49. Find the side of the square whose perimeter is 20m. **2 Marks**

Q50. Perimeter of an isosceles triangle is 50cm. If one of the two equal sides is 18cm, find the third side. **2 Marks**

Q51. Think and mark the positions as directed- **2 Marks**

Now, Akshi ran 1000m. How many full rounds has she finished running around her track? Mark her position as 'C'.

Q52. If you were making a table of the longest rivers on each continent and their lengths, would you prefer to use a bar graph with vertical bars or with horizontal bars? Why? Try finding out this information, and then make the corresponding table and bar graph! Which continents have the longest rivers? **2 Marks**

Q53. Express the following fractions in lowest terms: **2 Marks**

$\frac{126}{147}$

Q54. Find the equivalent fraction of $\frac{3}{5}$ having: **2 Marks**

numerator 27

Q55. Cadets are marching in a parade. There are 5 cadets in a row. What is the rule which gives the number of cadets, given the number of rows? (Use n for the number of rows.) **2 Marks**

Q56. Write one 5-digit number and two 3-digit numbers such that their sum is 18,670. **2 Marks**

Q57. p is divided by 11 and the result is added to 10. **2 Marks**

Q58. Who am I? **2 Marks**

1. I am a number less than 40. One of my factors is 7. The sum of my digits is 8.
2. I am a number less than 100. Two of my factors are 3 and 5. One of my digits is 1 more than the other.

Q59. Samantha visited a tea garden and collected data of the insects and critters she saw there. Here is the data she collected**;** **2 Marks**

				
Mites	Caterpillars	Beetles	Butterflies	Grasshoppers
6	10	5	3	2

Help her prepare a bar graph representing this data.

Q60. Complete these expressions. **2 Marks**

(–50)+ _____ = +200