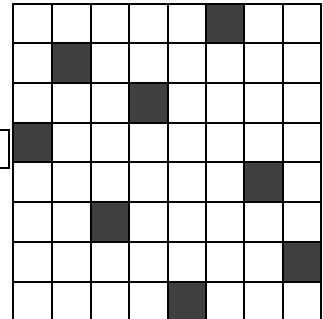




SATISH CHANDRA MEMORIAL SCHOOL
REASONING QUESTIONS
CLASS- VIII

1. How many more squares need to be shaded to cover 75% of the total area?

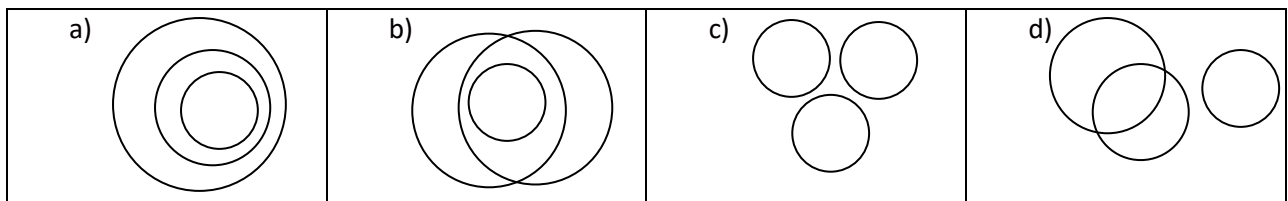


a) 6	b) 40	c) 48	d) 24
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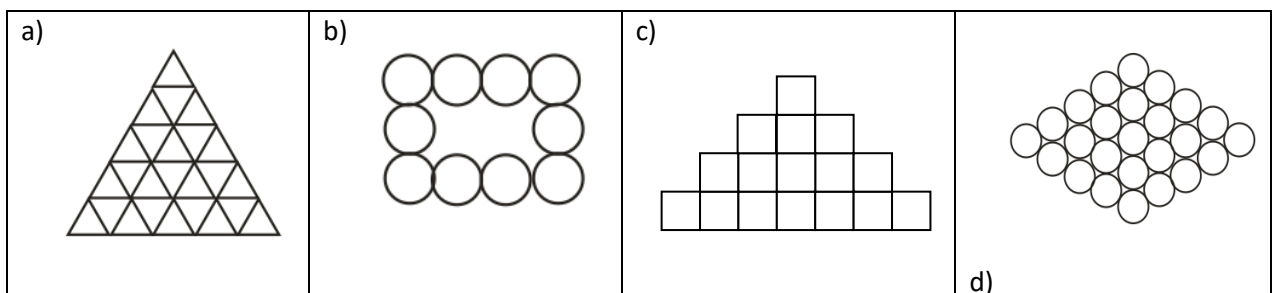
2. Choose the odd one from the following series :
 1, (1 + 3 + 5), 25, (1 + 3 + 5 + 7 + 9), 81, (1 + 3 + 5 + ... + 21), 169,

a) 25	b) (1 + 3 + 5 + ... + 21)	c) 169	d) (1 + 3 + 5 + 7 + 9)
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3. The following three elements may or may not have some inter linkage. Choose the correct Venn diagram which is appropriate for the given elements :
 Rational numbers, Decimal numbers, Whole numbers



4. Which of the following symmetric arrangement can not be used to represent a square number ?



5. $\left(88888 + \frac{1}{22222}\right) \left(88888 + \frac{1}{22222}\right) - \left(88888 - \frac{1}{22222}\right) \left(88888 - \frac{1}{22222}\right) = ?$

a) 11111	b) 4	c) 8	d) 16
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6. If $n = 111111^2$, then the 6th digit in the expansion of n from the right is –

a) 3	b) 4	c) 5	d) 6
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7. If \$ stands for multiplication, & stands for division, @ stands for subtraction and # stands for addition, which one of the following equation is correct ?

e) $\left\{\left(-\frac{2}{3}\right) \& \left(\frac{5}{7}\right)\right\} \# \left\{\left(-\frac{2}{3}\right) \& \left(-\frac{8}{7}\right)\right\} \# \left(\frac{5}{7}\right) = 1$	f) $\left\{\left(-\frac{2}{3}\right) \$ \left(\frac{5}{7}\right)\right\} @ \left\{\left(-\frac{2}{3}\right) \$ \left(-\frac{8}{7}\right)\right\} \# \left(\frac{5}{7}\right) = 1$
g) $\left\{\left(-\frac{2}{3}\right) \$ \left(\frac{5}{7}\right)\right\} \# \left\{\left(-\frac{2}{3}\right) \$ \left(-\frac{8}{7}\right)\right\} \# \left(\frac{5}{7}\right) = 1$	h) $\left\{\left(-\frac{2}{3}\right) \& \left(\frac{5}{7}\right)\right\} @ \left\{\left(-\frac{2}{3}\right) \& \left(-\frac{8}{7}\right)\right\} \# \left(\frac{5}{7}\right) = 1$

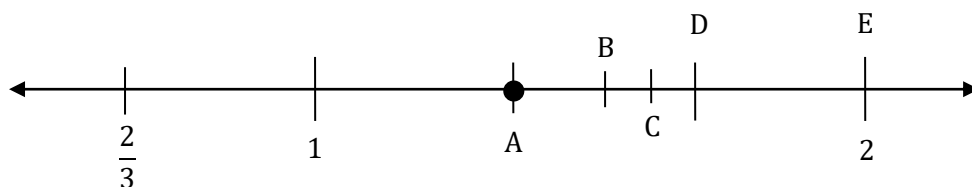
8. What is the missing number in the series: 1, 2, 4, 3, 9, 4, 16, ____, 25, 6, 36, 7 ?

a) 4	b) 5	c) 9	d) 25
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9. Tanu and Manu starts from a fixed point. Manu moves 7 km northward, turns left and walks 5 km. Tanu moves 5 km westward and turns left and then covers 12 km. Then the distance between Tanu and Manu and the distance of Tanu from the starting point now are respectively –

a) 17km, 13km	b) 19 km, 13km	c) 7 km, $\sqrt{74}$ km	d) 19 km, $\sqrt{74}$ km
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10. Which letter represent the approximate position of $A + \frac{1}{4}$ on the number line?



a) C	b) B	c) D	d) E
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11. Find the next number in the series : 8, 27, 64, 125, ?

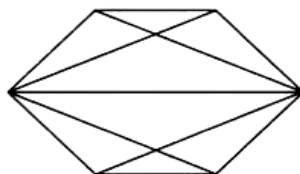
a) 200	b) 216	c) 256	d) 150
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12. Find the missing number in the series?

4, 18, ?, 100, 180, 294, 448

a) 48	b) 50	c) 58	d) 60
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13. How many quadrilaterals are there in the given figure?



a) 12	b) 14	c) 11	d) 10
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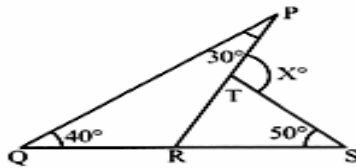
14. The value of $\sqrt{41 + \sqrt{54 + \sqrt{88 + \sqrt{128 + \sqrt{256}}}}}$ is

a) 7	b) 6	c) 8	d) 10
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15. If a and b are the lengths of the sides of a right angled triangle whose hypotenuse is 10 and whose area is 20, then the value of $a^2 + b^2$ is

a) 180	b) 160	c) 140	d) 120
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16. Find the value of x in the given figure:



a) 195°	b) 155°	c) 135°	d) 120°
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17. The sum of the interior angles of a polygon is three times the sum of its exterior angles. Then the number of sides of the polygon is

a) 3	b) 6	c) 9	d) 8
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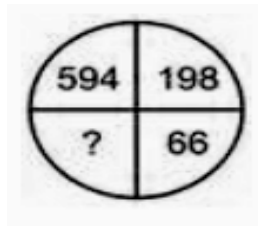
18. Anna came up with a number and asked her father to guess it by giving him the following clue: Assume that four times the number is equal to the sum of the number and 12. The number is

a) 3	b) 4	c) 5	d) 7
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19. If $A + B = 2C$ and $C + D = 2A$, then

a) $A + C = B + D$	b) $A + C = 2D$	c) $A + D = B + C$	d) $A + C = 2B$
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20. Find the missing number:



a) 11	b) 12	c) 22	d) 33
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