**DAV PUBLIC SCHOOLS, BHUBANESWAR**

**REVISION ASSESSMENT 2020-21**

**CLASS-VII**

**SUBJECT- Mathematics**

**Time- 1 hour 30 mins Maximum Marks: 40**

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| **GENERAL INSTRUCTIONS:*** **This question paper contains 40 questions.**
* **All the questions are compulsory.**
* **Section –A contains 15 subjective questions of 1 marks each, section-B contains 25 mcq of 1 marks each.**
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1. A man goes 5m in east and then 12m in north direction. Find the distance of his current position from the starting point.
2. Find the value of x.

 x

 70o  120o

1. Subtract the sum of -3/7 and 2 from $6\frac{2}{3}$
2. Find the value of$ 1+\frac{1}{1+\frac{1}{5}}$
3. Find the reciprocal of $\frac{-2}{3}×\frac{5}{7}$ + $\frac{2}{9}÷\frac{1}{3}×\frac{6}{7}$
4. A drum of kerosene is $\frac{4}{5}$ full. When 15litre of oil drawn from of it is $\frac{1}{2}$ full. Find the total capacity of the drum.
5. Find the product of

 $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)………………..(1-\frac{1}{20})$

1. Simplify and express in standard form of rational number

(1.44) x (144 ÷ 12) – 0.225 + 3.276

 9.Find two consecutive odd integers whose sum is 204.

 10. The mean of two numbers is 10 and their difference is zero. Find the numbers.

 11.The mean of 10 numbers is 20. If 5 is subtracted from every number, what will be the

 new mean?

 12. when $\frac{1}{3}$ is subtracted from a number a number and the difference is multiplied by 4, the

 result is 28. Find the number.

 13.Find the value of 16.016 ÷ 0.4

 14. The sum of two numbers is 95. If one exceeds the other by 3, find the numbers.

 15. At what percent will Rs 1500 amount to Rs 2400 in four years?

 MCQ

1. Express -4/8 as a rational number with denominator 12.
2. -6/12
3. –8/12
4. -24/12
5. -1/2
6. Find the average of $\frac{4}{5}$, $\frac{3}{2}$, $\frac{5}{6}$
7. 47/30
8. 47/60
9. -47/30
10. 94/30
11. On a number line, what is the length of the line segment joining $\frac{1}{2} and 3\frac{1}{2}$ ?
12. 3 units
13. 6 units
14. 3/2 units
15. 4 units
16. With what number should we multiply $\frac{-36}{35}$, so that the product will be $\frac{-6}{5}$ ?
17. -7/6
18. 7/6
19. -216/1225
20. 216/1225
21. Which of the following will not have terminating decimal representation?
22. 6/24
23. 2/35
24. 7/25
25. 121/10
26. What number should be added to $\frac{-3}{7}$ so as to get the identity element under multiplication?
27. 10/7
28. 4/7
29. -10/7
30. -4/7
31. By selling an article of Rs475, Rahul lost 5%, find C.P of the article.
32. Rs 451.25
33. Rs 500
34. Rs 551.25
35. Rs 451.75
36. Out of a class of 45 students, five were absent, 30% of the remaining had failed to do homework. Find the no of students who did the homework.
37. 18

ii) 12

iii) 28

iv) 22

1. 12% of 50 + 5% of 120 is equal to
2. 10
3. 15
4. 12
5. 20
6. What percent of numbers from 1 to 20 are divisible by 4?
7. 23.7%
8. 25%
9. 20%
10. 24.7%
11. If x% of y is 13x, find the value of y.
12. 1330
13. 1100
14. 1030
15. 1300
16. Length of a rectangle is 16cm less than twice its breadth. If the perimeter of the rectangle is 100 cm, find its breadth.
17. 22 cm
18. 28 cm
19. 25 cm
20. 24 cm
21. Find k, so that x= 3 is a solution of the equation kx + 8 = 11
22. 19/3
23. 1
24. -1
25. -3
26. Find x,

(x+2)(x+3) + (x-3)(x-2) -2x(x+1) =0

1. 12
2. -6
3. 6
4. 3
5. The mean of five numbers is 27. If one number is excluded, their mean is 25. Find the excluded number.
6. 35
7. 25
8. 27
9. 72
10. The mean of eight observation was found to be 57. Later on, it was discovered that one observation i.e., 48 was misread as 84. Find the correct mean.
11. 50.5
12. 52
13. 52.5
14. 48
15. Find the mode of the following marks (out of 10) obtained by 11 students.

 6,8,2,3,3,3,7,8,5,1,3

1. 3
2. 2
3. 8
4. 5
5. Which of the following can’t be the sides (in cm) of a triangle?
6. 3,4,10
7. 6,4,8
8. 35,38,40
9. 51,53,60
10. The length of two sides of a triangle are 4 cm and 6 cm. Between what two measures should the length of the third side fall?
11. 3cm and 9 cm
12. 2cm and 10cm
13. 3cm and 10cm
14. 2 cm and 9cm
15. Which of the following is a Pythagorean triplet?
16. 3,4,5
17. 11,12,13
18. 20,21,25
19. 8,9,12
20. Find the length of the diagonal of a rectangle whose sides are 15cm and 8cm.
21. 17cm
22. 13 cm
23. 21 cm
24. 19 cm
25. The centroid of a triangle divides the median into \_\_\_\_\_\_\_\_\_\_\_ ratio.
26. 1:2
27. 3:1
28. 1:3
29. 2:1
30. Circumcentre of an obtuse triangle lies \_\_\_\_\_\_\_\_\_\_\_\_ of the triangle.
31. In the exterior region of a triangle
32. In the interior region of a triangle
33. At the vertex of right angle
34. At the mid-point of hypotenuse
35. The point of concurrence of the altitude of a triangle is called its \_\_\_\_\_\_\_\_\_\_.
36. Centroid
37. Orthocentre
38. Circumcentre
39. Incentre
40. The decimal representation of 125% is \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
41. 0.125
42. 1.25
43. 12.5
44. 0.725

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