Name:

# Class 7 - Test 13

Total Mark - 20
Time - 45 Mins
Date - 19-Feb-2024

1. Write the statements The sum of three times x and 11 is 32 in the form of equations: **[1]**

   a) $5x - 7 = 2$ b) $3x - 11 = 34$

   c) $3x + 11 = 32$ d) $3x - 12 = 33$

2. Sachin scored twice as many runs as Rahul. Together, their runs fell two short of a double century. How many runs did each one score? **[1]**

   a) Sachin: 66 runs, Rahul: 132 runs b) Sachin: 132 runs, Rahul: 66 runs

   c) Sachin: 136 runs, Rahul: 132 runs d) Sachin: 132 runs, Rahul: 132 runs

3. An exterior angle of a triangle is of measure $110^o$ and one of its interior opposite angles is of measure $25^o$. Find the measure of the other interior opposite angle. **[1]**

   a) $75^o$ b) $65^o$

   c) $55^o$ d) $85^o$

4. The sides of a triangle have lengths (in cm) 10, 6. 5 and a, where a is a whole number. The minimum value that 'a' can take is **[1]**

   a) 5 b) 6

   c) 3 d) 4

5. The ratio 3 : 8 is equal to **[1]**

   a) 0.375% b) 37 .5%

   c) 267% d) 3. 75%

6. Rohan bought a second hand refrigerator for ₹2,500, then spent ₹500 on its repairs and sold it for ₹3,300. Find his loss or gain percent. **[1]**

   a) Loss 15% 2a b) Profit 20%

   c) Loss 10% d) Profit 10%

7. Express 54 m as a percentage of 1 km 80 m. **[1]**

   a) $37\frac{1}{7}\%$ b) $3\frac{5}{7}\%$

   c) 5% d) 50%

8. $\frac{1}{15} \div \left(\frac{4}{15} + \frac{1}{3} - \frac{3}{45}\right)$ is equal to **[1]**

   a) $\frac{45}{4}$ b) $\frac{4}{45}$

   c) $\frac{8}{3}$ d) $\frac{1}{8}$

9. $\frac{5}{8}$ is the rational number between $\frac{1}{2}$ and $\frac{3}{4}$. Which of the following is not a rational number between $\frac{1}{2}$ and $\frac{3}{4}$? **[1]**

   a) $\frac{9}{16}$ b) $\frac{13}{16}$

   c) $\frac{10}{16}$ d) $\frac{11}{16}$

10. A box is to be filled with mangoes, each weighing $\frac{1}{10}$ kg. The weight of the box should not exceed $\frac{3}{5}$ kg. Find the maximum number of mangoes that can be put inside the box. **[1]**

    a) 8 b) 4

    c) 6 d) 7

11. If the difference between the circumference and diameter of a circle is 60 cm, then the radius of the circle will be: **[1]**

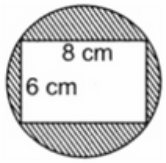
    a) 11 cm b) 22 cm

    c) 14 cm d) 7 cm

www.allcanmath.com

Name:

12. In the adjacent figure, find the area of the shaded region. **[1]**




a) 61.14 $cm^2$
b) 40.76 $cm^2$
c) 30.57 $cm^2$
d) 15.28 $cm^2$

13. If the radius of a circle is tripled, the area becomes **[1]**

a) 30 times
b) 9 times
c) 3 times
d) 6 times

14. The value of expression $5n^2 + 5n - 2$ for n = -2 is **[1]**

a) 8
b) -12
c) -8
d) 10

15. Find the solution of the equation x + 4 = 5x - 8. **[1]**

a) x = -2
b) x = 3
c) x = -9
d) x = -5

16. By simplifying $\frac{4r}{(r^2\ \mathrm{m})^2}$, we get: **[1]**

a) $\frac{4}{r^3}$m
b) $\frac{1}{2}$m
c) $\frac{4r}{r^5}$m
d) $\frac{4}{r^3}m^2$

17. Find the number from the following expanded form: $8 \times 10^4 + 6 \times 10^3 + 0 \times 10^2 + 4 \times 10^1 + 5 \times 10^0$ **[1]**

a) 86054
b) 96045
c) 80045
d) 86045

18. Standard form of 79403.75 is _____. **[1]**

a) $79.40375 \times 10^3$
b) $7.940375 \times 10^4$
c) $794.0375 \times 10^2$
d) $7.940375 \times 10^6$

19. Two cubes of dimensions 3 cm × 3 cm × 3 cm are placed side by side, the length of resulting Cuboid is: **[1]**

a) 3
b) 7
c) 6
d) 9

20. Which one of the following solids can be formed using the net given? **[1]**

a)
b)
c)
d)

www.allcanmath.com