

WORKSHEET (MATHEMATICS)

8th

Q1. The product of two numbers is 7260. If one no. is 15 times the other no., find the nos.

Q2. Find the smallest 4-digit no. which is a perfect square.

Q3. Find the greatest 6-digit no. which is a perfect square.

Q4. Find the volume of a cubical box if the cost of painting its outer surface is ₹ 1440 at the rate of ₹ 15 per m^2 .

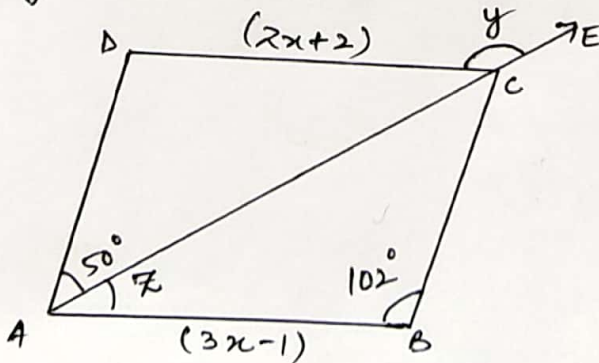
Q5. Find the cube of -13.

Q6. Find the cube root of i) $\frac{-64}{1331}$ ii) 0.000008.

Q7. Find the square root of i) $10\frac{86}{121}$ ii) 0.00064516

Q8. If the angles of the quadrilateral are in the ratio 5:8:11:12 find the angles.

Q9. Find x , y and z . If ABCD is a ||gm.



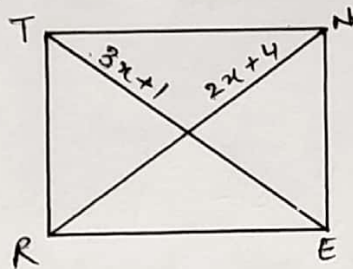
Q10. Construct a Rhombus whose diagonals are 6cm and 8cm.

Q11. Construct a Square whose one diagonal is 5cm.

Q12. Construct a Square whose one side is 6cm.

Q13. Find the no. of diagonal of a regular Hexagon.

Q14. RENT is a rectangle Find ET and RN.



Q15. In a Quadrilateral ABCD, $AB \parallel CD$. If $\angle A : \angle D = 2 : 3$, and $\angle B : \angle C = 7 : 8$ find the angles.

Q16. Express the following as the sum of two consecutive integers.

i) 15^2

ii) 23^2

Q17. Solve $\frac{2}{5x} - \frac{5}{3x} = \frac{1}{15}$.

Q18. Solve $\frac{17-3x}{5} - \frac{4x+2}{3} = 5-6x + \frac{7x+14}{3}$.

Q19. Solve $\frac{0.5(x-0.4)}{0.35} - \frac{0.6(x-2.71)}{0.42} = x + 6.1$

Q20. Solve $\frac{1}{x+1} + \frac{1}{x+2} = \frac{2}{x+10}$.

Q21. Divide 1380 among Ahmed, John and Babita so that the amount received is 5 times as much as Babita's share and is 3 times as much as John's share.

Q22. What should be added to $-\frac{7}{8}$ to get $\frac{5}{9}$?

Q23. What should be subtracted from $-\frac{5}{3}$ to get $\frac{5}{6}$?

Q24. Divide the sum of $\frac{65}{12}$ and $\frac{12}{7}$ by their difference.

Q25. Find ten Rational Nos. between $-\frac{3}{4}$ and $\frac{2}{5}$.

Q26. By what Rational No. should -3 be divided to get $-\frac{9}{13}$.

Q27. Ramesh earns ₹ 40000 per month. He spends $\frac{3}{8}$ of the income on food, $\frac{1}{5}$ of the remaining on LIC and then $\frac{1}{2}$ of the remaining on other expenses. Find how much money is left with him?

Q28. A card is drawn from a well-shuffled pack of 52 playing cards. Find the probability of getting

- i) a card of heart
- ii) Non-face card
- iii) a red card
- iv) Neither king nor queen
- v) Either Jack or King.

Q29. Find the probability of getting 53 Sundays in a leap year.

Q30. Three coins are tossed together. Find the probability of getting

i) atleast two heads

ii) atleast one head

iii) atleast one Tail.

Q31. Write the Pythagorean triplets whose one member is 15.