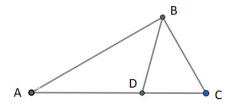
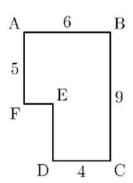
- 1. Sum of seven consecutive odd natural numbers is 651. Find the largest number.
- 2. What is the smallest natural number with which if we multiply 2023, we get perfect square.
- 3. Number of whole natural numbers between $\sqrt[3]{7}$ and $\sqrt[3]{344}$ is
- 4. In triangle ABC, BD bisects angle B. If $m\angle C=\frac{2}{3}m\angle B$ and $m\angle B=3m\angle A$ then $m\angle BDC$ is



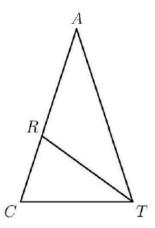
5. All angles of the polygon ABCDEF are right angles. Find the area of the polygon ABCDEF.



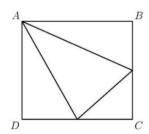
- 6. If a=-2, the value of largest number in the set $\left\{-4a,4a,\frac{24}{a},a^2,1\right\}$ is
- 7. F is fraction halfway between $\frac{1}{5}$ and $\frac{1}{3}$ (on the number line). Find 105F.
- 8. A square and a triangle have equal perimeters. The lengths of the three sides of the triangle are 6.2, 8.3, and 9.5. The area of the square is
- 9. Simplify and find $\frac{95}{2 \frac{5}{12}} =$
- 10. The number 64 has the property that it is divisible by its units digit. How many whole numbers between 10 and 50 have this property?

1

11. In triangle CAT, we have $\angle ACT = \angle ATC$ and $\angle CAT = 36^{\circ}$. \overline{TR} bisects $\angle ATC$, If CT = 29 then find AR



12. The area of rectangle ABCD is 72 . If point A and the midpoints of \overline{BC} and \overline{CD} are joined to form a triangle, the area of that triangle is



- 13. For any positive integer n, define \boxed{n} (n inside a square box) to be the sum of all positive factors of n. For example, $\boxed{6} = 1 + 2 + 3 + 6 = 12$. $K = \boxed{11}$ Find \boxed{K} .
- 14. The base of an isosceles $\triangle ABC$ is 24 and its area is 60 . What is the perimeter of $\triangle ABC$?
- 15. $\frac{1}{2}$ of $\frac{1}{3}$ of $\frac{1}{4}$ of $\frac{1}{5}$ of $\frac{1}{6}$ of 26640 is
- 16. If $25^{3-2x} = 5^{-6}$, find x.
- 17. 50 ml of concentrated Kokam syrup is mixed with water for making a glass of 250 ml tasty Kokam Sharabat. How many liters of water is required to make 70 glasses of Kokam Sharabat.

$$18. \ \frac{\sqrt{200} + \sqrt{300}}{\sqrt{8} + \sqrt{12}} =$$

19. If
$$\frac{3}{7}\left(1-\frac{7}{94}k\right)+\frac{1}{5}\left(1+\frac{7}{94}k\right)+\frac{2}{3}\left(1-\frac{7}{94}k\right)=0$$
, then find the value of $\frac{7k}{2}$.

20. R is a rational number. Instead of multiplying R by 3 and then subtracting 7, Rahul divided it by 3 and then added 7. Surprisingly he got the same answer. Report 4R

Answer Key:

1112 61 1163 .										
	1	2	3	4	5	6	7	8	9	10
	99	7	6	75	46	8	28	36	60	17
	11	12	13	14	15	16	17	18	19	20
	29	27	28	50	37	3	14	5	68	21