Self Practice Task

Setting Up Equations

Note: Solve all questions and check your answers given at the end of the document.

1. The sum of three consecutive numbers is 54. What are the numbers?
2. The length of a rectangular garden is 9m greater than its length. If the perimeter is 118m, Find the area of garden?
3. The beach is x miles away from home. Josh drove to and from the beach with a total distance of 36 miles. Find x.
4. Emily bought some ice cream cones which cost \$24. She paid \$$m$ and got back \$6 of change. Find m.
5. In the morning, there were t people at the beach. Later at noon, $\frac{2}{7}$of the people left the beach and there were 30 people left on the beach. Find t.
6. When loaded with bricks , a lorry has a mass of 11600kg. If the mass of the bricks is three times as the mass of empty lorry, find the mass of bricks.
7. The sum of four consecutive odd numbers is 56. Find the greatest of all four numbers.
8. Amirah is 4 years older than Priya and Shirley is 2 years younger than Priya. If the sum of their ages is 47, find their respective ages.
9. The sum of two numbers, one of which is two-thirds of the other, is 45. Find the smallest number.
10. If a number is tripled, it gives the same result as when 28 is added to it find the number.
11. The sum of half a number and 49 is $2\frac{1}{4}$ of the number. Find the number. The sum of one-fifth of a number and $3\frac{7}{10}$ is 7. Find the number.
12. When a number is multiplied by 4 before subtracting from 68, the result obtained is same as the three times the sum of the number and 4. Find the number.
13. A man is six times as old as his son. Twenty years later the man will be twice as old as his son. Find the age of the man when his son was born.
14. The numerator of a fraction is 5 less than its denominator. If 1 is added to the numerator and to the denominator, the new fraction is $\frac{2}{3}$. Find the fraction.
15. The sum of three consecutive numbers is 60. Find the numbers.
16. The sum of two numbers, one of which is 5 times as large as the other is 24. Find the two numbers.
17. In a science test Devi scores 15 marks more than Lixin . If Devi obtains twice as many marks as Lixin, find the number of marks Lixin obtains.
18. Find two consecutive odd numbers such that the sum of greater and 5 times the smaller number is 92.
19. Object A is 5 kg heavier than Object B and the mass of Object C is twice as mass of Object A. If the total mass of the three objects is 225kg, find the mass of object C.

20. The sum of the ages of Farhan and his cousin is 38. Seven years ago, Farhan was thrice as old as his cousin. Find Farhan's present age.
21. Nora is twice as old as Raj and half as old as Ethan. In 22 years', time Ethan will be twice old as Raj. Find Nora's present age.
22. A man has 25 sweets and his son has 55 sweets. Find the number of sweets that the man has to give to his son so that his son would have 4 times as many sweets as him.

Answers	
1. 17,18 and 19	2. Area = $850\ m^2$
3. $x = 18$	4. $m = 30$
5. 42	6. 8700kg
7. 17	8. 19, 15 and 13
9. 18	10. 14
11. 28	12. 8
13. 25 years	14. $\frac{9}{14}$
15. 18,20,22	16. 4 and 20
17. 15	18. 15 and 17
19. 130kg	20. 25
21. 22	22. 9

Further Worksheets

https://www.k5learning.com/worksheets/math/grade-5-word-problems-variables-equations-d.pdf

https://corbettmaths.com/wp-content/uploads/2018/09/Forming-Solving-Equations-115-pdf.pdf