



Solving equations.

Example 1:

Solve: $m + 4m = 20$

$$5m = 20$$

$$\frac{1}{5}m = \frac{20}{5}$$

$$m = 4$$

Example 2:

Solve: $3g + g + 2g = 30$

$$6g = 30$$

$$\frac{6g}{6} = \frac{30}{6}$$

$$g = 5$$

Exercise 14:27

Solve the equation

1. $x + x = 8$
2. $2y + y = 12$
3. $a + 3a = 16$
4. $2p + 2p = 20$
5. $y + y + 2y = 24$
6. $2x + x + 2x = 25$
7. $n + 7n = 32$
8. $p + 5p + 2p = 40$
9. $t + 4t = 45$

Forming and solving equations

Example 1

Musa is twice as old as Anna. Their total age is 18 years.
How old is Anna?

Let Anna's age be x .

Anna	Musa	Total
x yrs	$2x$ yrs	18 yrs

Therefore $x + 2x = 18$

$$3x = 18$$

$$\frac{3x}{3} = \frac{18}{3}$$

$$x = 6$$

Anna's age is = 6 yrs

Exercise 14:28

Form and solve equations.

1. Kyege's age is three times Kato's age. If their total age is 20 yrs, how old is Kato?
2. A mother is 4 times as old as her daughter. Their total age is 30 yrs, find the daughter's age.
3. Apio weighs $3x$ kg and Waiswa weighs $4x$ kg. If their total weight is 140 kg, find Apio's weight.
4. The distance from Bruno's home to school is 10 times the distance to church from school. If the total distance is 22 km, how far is the church from school?
5. A father is 3 times as old as his daughter. Their total age is 48 years. How old is the daughter?