

Making Expression, Formula and Equation

In algebra we use letters for numbers. These letters are for unknown quantity.

The cost of 1 sweet is 12p , find the cost of x sweets.

Here ,

1 sweet cost 12 p,

2 sweets cost $2 \times 12p = 24 p$

5 sweets cost $5 \times 12p = 60 p$ similarly

x sweets cost $x \times 12p = 12x p$

(here x is the variable we can use any whole number to find the cost of sweets)

Exercise

1) Write the expression.

a. The cost of 1 pen is 'x' . Write the expression for 12 pens.

= _____

b. There are 'p' chocolates in the box. How many chocolates are there in 20 box.

= _____

2) Here is some information about three people.

Joe is n years old.

Kate is twice the age of Joe.

Harry is 5 year older than Kate. Write the expression for the age of .

a) Joe: _____

b) Kate : _____

c) Harry: _____

3) Write the expression for the following statements.

a) Add 5 to 'a': _____

b) Subtract 3 from 'a': _____

c) Multiply 'a' by 3: _____

d) Divide 'a' by 3: _____

e) Multiply a by itself: _____

4) A ruler costs k pence.

A pen costs m pence.

Write each statement with the correct expression for the amount in pence.

a) The total cost of 5 rulers

b) The total cost of 5 rulers and 5 pens

c) How much more 5 pens cost than 5 rulers

d) The change from £5, in pence, when you buy 5 pens

e) The cost of 5 pens and 1 ruler.

5) A can of cola costs x pence, An ice cream costs y pence.

Atif buys 3 cans of cola and 2 ice creams.

Write down an expression, in terms of x and y , for the total cost, in pence.

6) Pens cost 10p each. Pencils cost 12p each.

What is an expression for the total cost, in pence, of x pens and y pencils?

7) Jane's age is n years.

Duncan is 5 years younger than Jane.

What is Duncan's age?

8) A shop sells CDs for x pounds each.

Darren buys 8 of these CDs.

What is the expression, in terms of x , for the total cost of 8 CDs?

9) Sweets cost 5 pence each.

Shamonti buys x sweets.

What is the expression, in terms of x , for the total cost?

10) The cost of a box of chocolates is 20 pound, there are ' x ' number of chocolate, find the cost of

a) 1 chocolate

b) 5 chocolates.
