



Name: _____



Write the following as an expression for:

- a) There are n people on a bus: 4 people get on.
- b) A number x is decreased by 9.
- c) A number x is tripled and 3 is added to it.
- d) The cost of a banana is b , the cost of 6 bananas.
- e) There are n people on a bus: 40% of people get off.
- f) A number x is halved.
- g) A number a is increased by 8, then doubled.
- h) A number c is squared before subtracting 4.

Write an equation for the following:

- a) There are n people on a bus, 8 people get on. There are now 20 people on the bus.
- b) A number n decreased by 12 is now 40.
- c) A square has side width x , its perimeter is 48cm.
- d) A number x is multiplied by 3, then increased by 5. It is now equal to 26.
- e) 4 apples cost 30p less than £1.90.
- f) A rectangle has side lengths $3x$ and x , its perimeter is 52cm.

Write a formula for the following statements:

- a) The total cost (in £ C) of a washing machine costing £ n after a £100 discount.
- b) My total earnings (in £ E) at £8 per hour when I've worked for n hours.
- c) The total cost (in £ C) of a electrician's bill who charges £30 per hour for n hours plus a £40 call out fee.
- e) The total cost (in £ C) of buying n cinema tickets at £7.50 each less £5 cash back for a group booking.
- f) The total cost (in £ C) of hiring a car when the company charges £15 for hire plus 30p per mile (m) driven.

Exam question:

x is a positive integer.

Write an equation for the area rectangle, given that the area is of the rectangle is 27cm^2 .

Hence, calculate the value of x .

