

Revision 3

1 Write each ratio in its simplest form.

(a) $3 : 18 =$

(b) $15 : 5 =$

(c) $48 : 60 =$

(d) $75 : 100 =$

(e) $243 : 90 =$

(f) $43 : 43 =$

2 Evaluate the given expression for different values of n .

n	$100 - 6n$
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
5	<input type="text"/>
11	<input type="text"/>

3 Write an algebraic expression for T in terms of k to describe a rule for this sequence.

Term number, k	1	2	3	4
Term, T	4	9	14	19

4 Find the value of x in each of the following equations.

(a) $9 + x = 14$

(b) $16 - x = 4$

(c) $x - 16 = 35$

(d) $3x = 21$

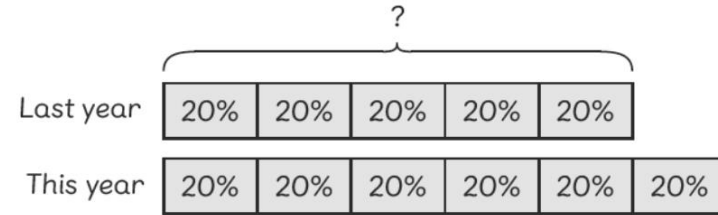
(e) $\frac{80}{x} = 16$

- 5 A florist has 480 individual flowers. The table shows how many of each type of flower she has.

Types of flowers	Percent
Roses	65%
Lilies	5%
Tulips	30%

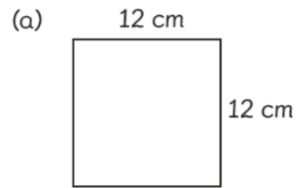
- (a) The florist has roses.
- (b) The florist has tulips.
- (c) There are more tulips than lilies.
- (d) The original price of a bouquet of lilies was £32. The florist increased the price by 25%. What is the new price of a bouquet of lilies?

- 6 A Science Club has 108 members this year after a 20% increase in membership from last year. How many members did the club have last year?

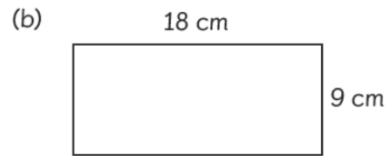


- 7 The ratio of the number of male to the number of female passengers in a bus was 3 : 4. After 12 men got off the bus and 12 women got on, the ratio became 3 : 11. How many passengers were on the bus to begin with?

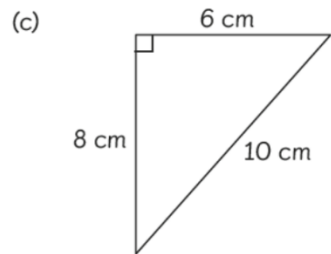
8 Find the area and the perimeter of each figure.



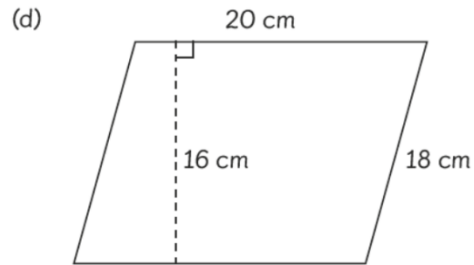
area =
perimeter =



area =
perimeter =

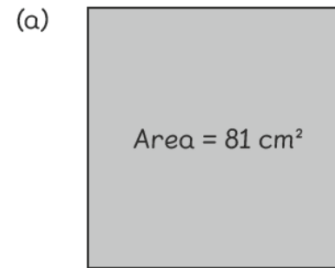


area =
perimeter =

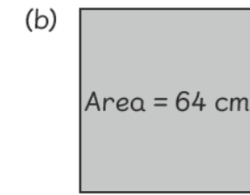


area =
perimeter =

9 Find the side length and the perimeter of each square.



side length =
perimeter =



side length =
perimeter =

10 A rectangle has a perimeter of 68 cm. Its shorter side is 12 cm shorter than its longer side.

(a) Find the length of its longer side and the length of its shorter side.

(b) Calculate its area.