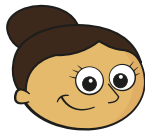


1

I'm thinking of a number. If you multiply it by 4 and add 6 you get 42



- a) Form an equation to describe Tommy's number.
  - b) Solve the equation to find Tommy's number.
- Dora is also thinking of a number.

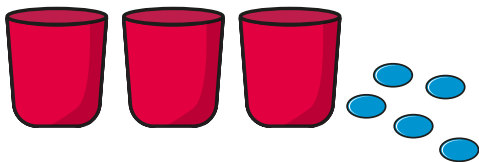


If you add 6 to my number, then multiply by 4 you get 42

- c) Form and solve an equation to find Dora's number.

2

- a) Annie has 3 cups of counters and 5 extra counters.



Each cup contains the same number of counters.

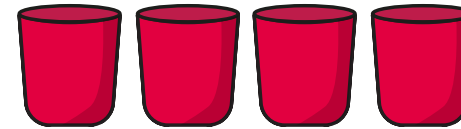
I have 26 counters in total.



Form and solve an equation to work out how many counters Annie has in each cup.



- b) Annie now has 4 cups each containing  $k$  counters.



She removes 3 counters from each cup.  
There are 24 counters in total remaining.  
Form and solve an equation to find the value of  $k$ .

3

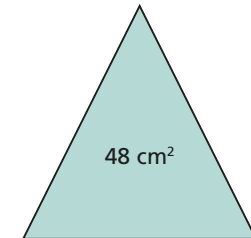
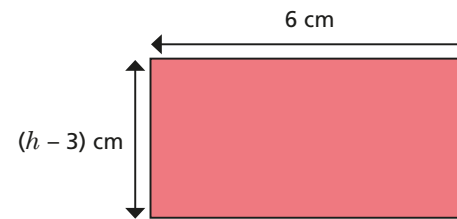
- a) A jug contains 1 litre of juice.  
Dani pours a drink for each of her friends.



After Dani has poured out 4 glasses, the jug is half full.  
Form an equation and solve it to find the capacity of each glass.

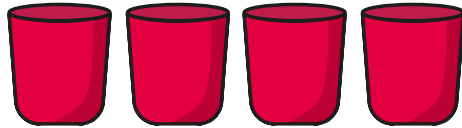
4

- a) The rectangle has the same area as the triangle.



- a) Form an equation and find the value of  $h$ .
- b) Work out the perimeter of the rectangle.

b) Annie now has 4 cups each containing  $k$  counters.



She removes 3 counters from each cup.

There are 24 counters in total remaining.

Form and solve an equation to find the value of  $k$ .

3 A jug contains 1 litre of juice.

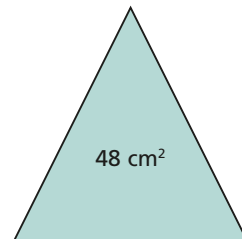
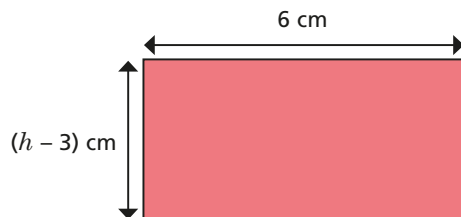
Dani pours a drink for each of her friends.

After Dani has poured out 4 glasses, the jug is half full.

Form an equation and solve it to find the capacity of each glass.



4 The rectangle has the same area as the triangle.



a) Form an equation and find the value of  $h$ .

b) Work out the perimeter of the rectangle.

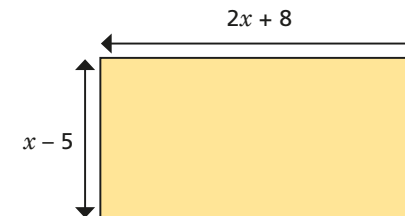
5 Large chocolate bars are 20p more expensive than small chocolate bars.

a) Dexter buys 3 small and 3 large chocolate bars for a total cost of £5.40

Form and solve an equation to find the cost of each bar.

b) How many different ways can Dexter spend exactly £5 on chocolate bars? Explain your answer.

6 The perimeter of this rectangle is 51 cm.



Work out the area of the rectangle.

