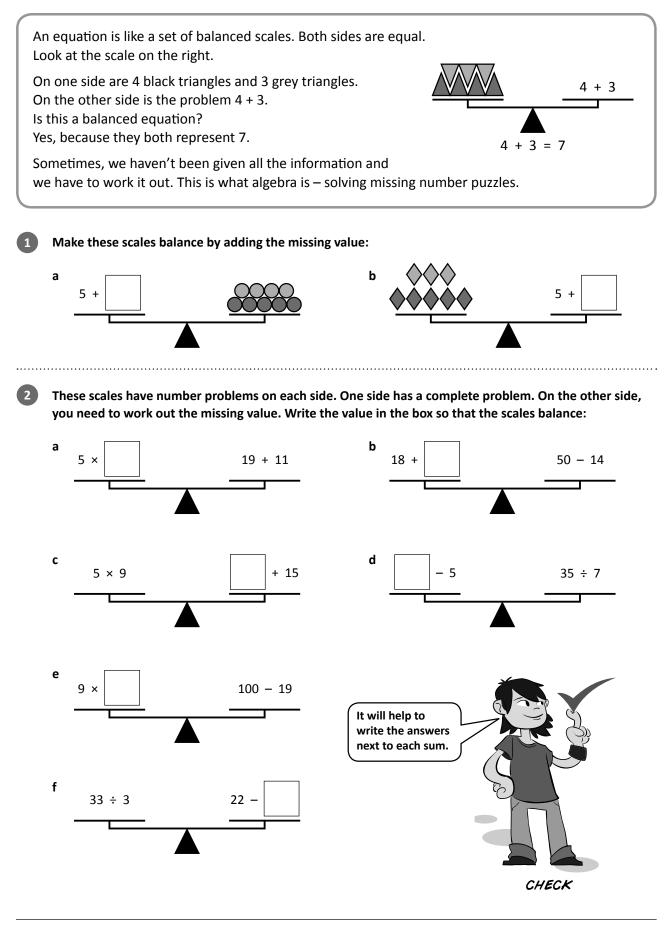
## Equations and equivalence – understanding equivalence





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#### Equations and equivalence – understanding equivalence

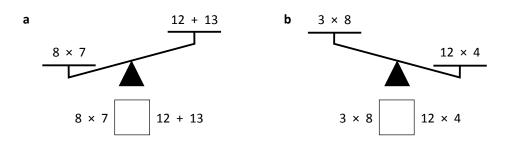
If the sides are not balanced, we say the equation is unequal. Look at these scales:  $5 \times 4$  is greater than 5 + 4So instead of an equals sign, we use the greater than sign:

 $5 \times 4 > 5 + 4$ 

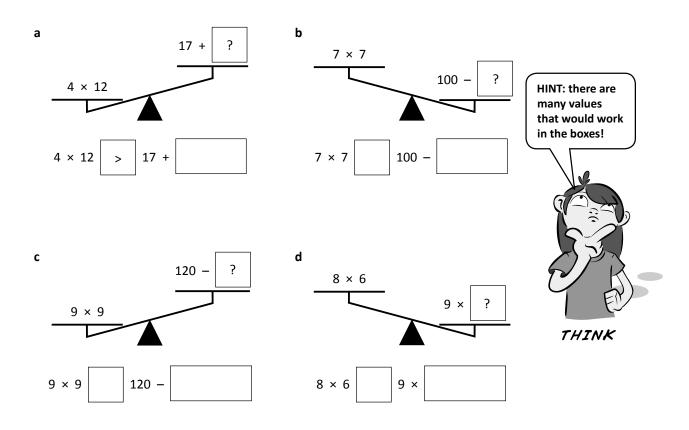
3

4

Complete the following scales and inequalities by adding greater than (>) or less than (<):



In these problems, you have to add both the symbol *and* a value that would make the equation true. Remember, just like with ordinary scales, the bigger value will be lower down.





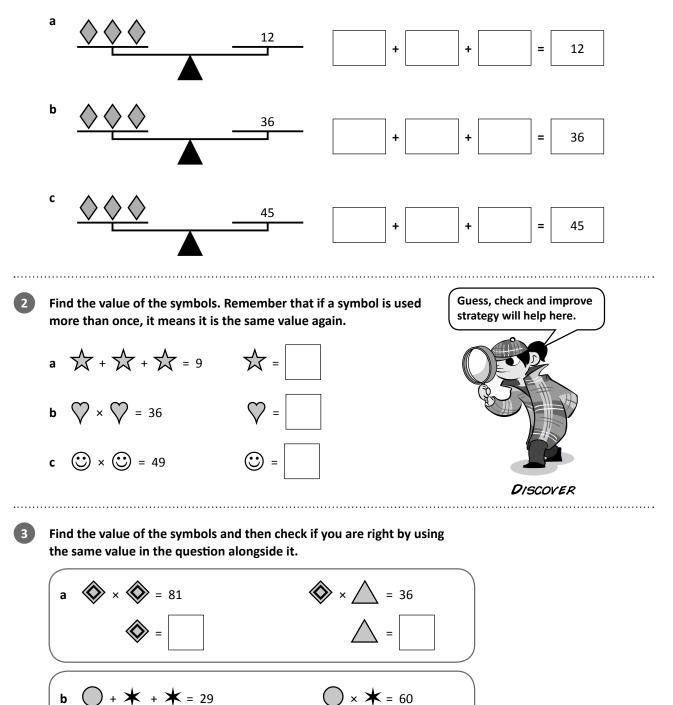
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Symbols help us when we have more than one number to find.

A symbol can be any shape and stands for any unknown numbers.

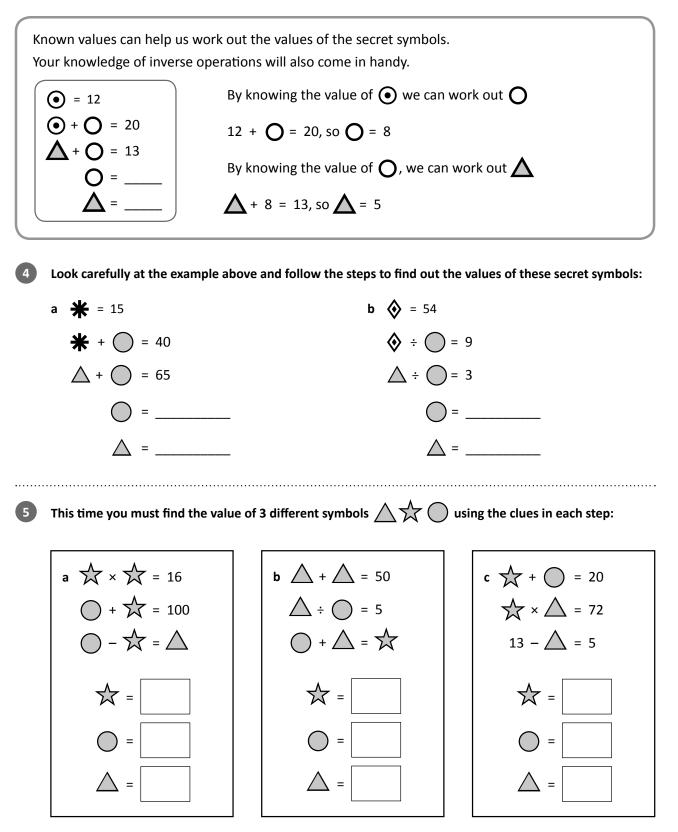
Work out the value of the diamond in each question. Notice the same symbol is added 3 times. Your 3 times tables will help here.



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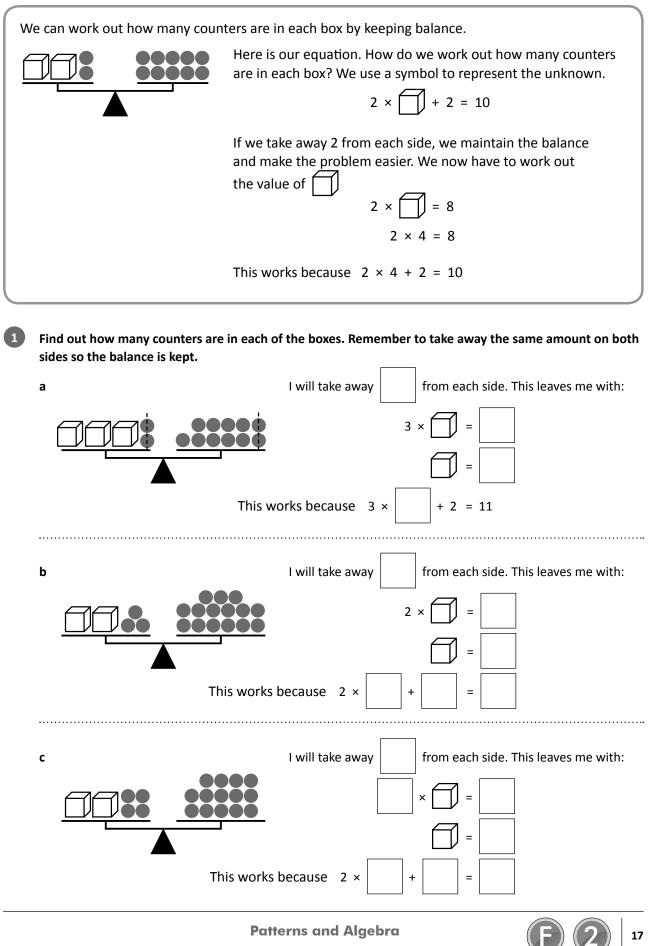


#### Equations and equivalence – using symbols





## Equations and equivalence – keeping balance

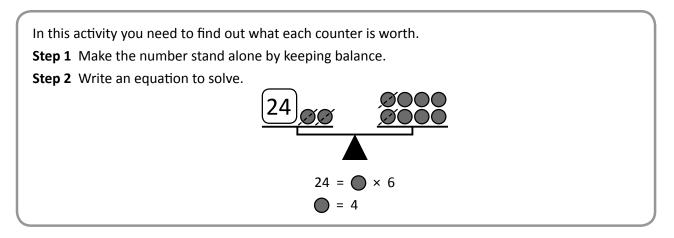


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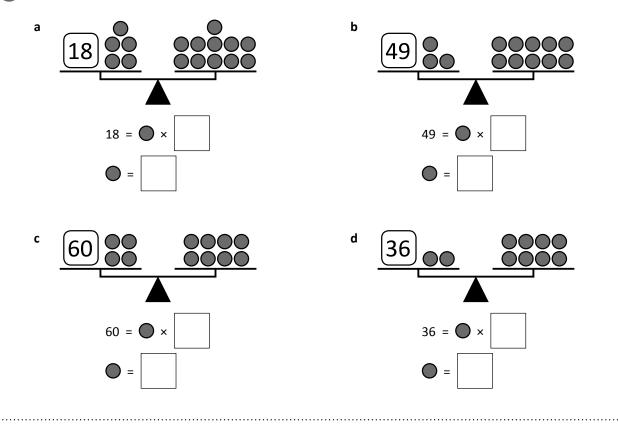
SERIES

TOPIC

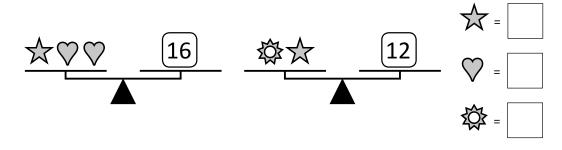
## Equations and equivalence – keeping balance



Look carefully at each balanced scale and work out what the symbols equal:



This time use guess, check and improve to work out what the value of the symbols could be. The symbols have the same value on both scales.





2

3

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## Magician's hat trick



Abrakazaam

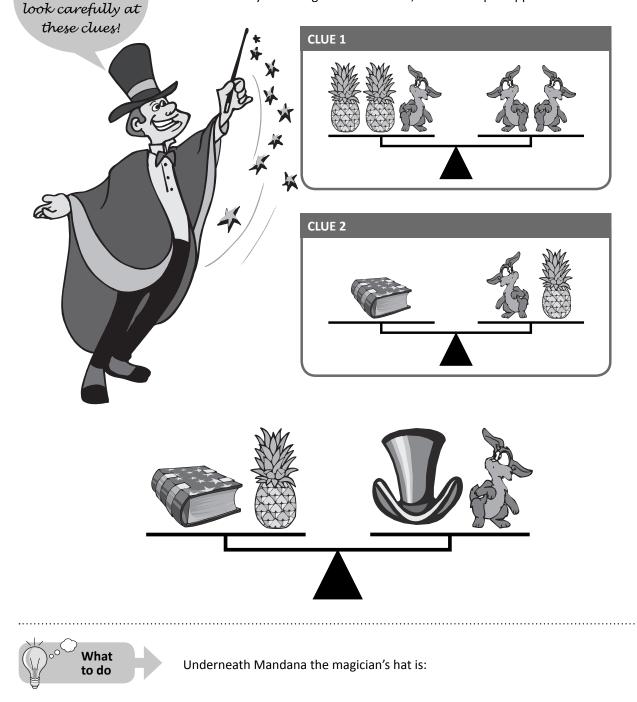
abrakazoo ...

Mandana the magician is the master of optical illusions, magic tricks and disappearing acts.

One of his favourite tricks, is the disappearing act where he waves his wand and things disappear ... or do they?

Work out what he has hidden under his top hat.

**Clue:** It is only one thing – either a rabbit, a book or a pineapple.





solve

# Dhiffushi island currency

solve

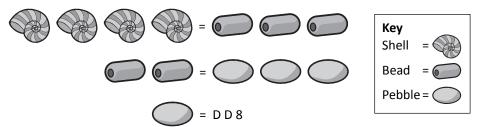


On the holiday island of Dhiffushi, instead of money, they use shells, beads and pebbles. Instead of a dollar sign they have this: D D, which stands for Dhiffushi Dollars.





Work out what this currency is equal to by looking at these clues:



Using the symbol D D, convert the price of each of the following :

1 pebble = \_\_\_\_\_ so 3 pebbles = \_\_\_\_\_

1 bead = \_\_\_\_\_ so 2 beads = \_\_\_\_\_

1 shell = \_\_\_\_\_\_ so 4 shells = \_\_\_\_\_

Using Dhiffushi currency, draw what I could use to pay for the following:

Snorkeling = D D 36

Rainforest trip = D D 40

Turtle watching = D D 54

Diving = D D 72

In Dhiffushi currency, how much was my accommodation if I paid:



My accommodation would be \_\_\_\_\_

