

Maths challenge

Shape puzzle

$$\star - \blacksquare = 6$$

$$\bigcirc + \star = 11$$

$$\blacksquare + \star = 14$$

Can you work out the value of each of the shapes?
Can you design your own one of these?

Popcorn queue

Ed is standing in a line to buy popcorn.

He is 6th from the start of the line and 9th from the end of the line.

How many people are in the line?



Consecutive numbers

Can you find 3 consecutive numbers that add to make 18 and 36?

Consecutive numbers are numbers that are next to each other e.g. 3, 4, 5

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad} = 18$$

$$\underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad} = 36$$

Fish tank



Katie has 63 fish in her fish tank.

Some of them are black and the rest are gold.

If there are 2 gold fish for every black fish, how many black fish does she have?