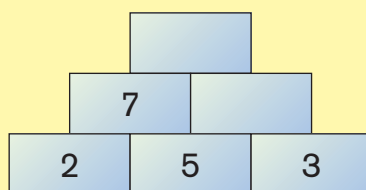
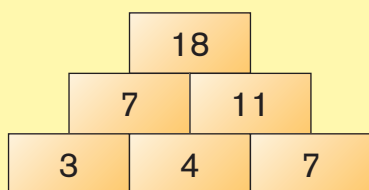


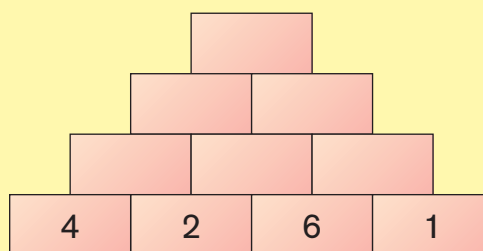
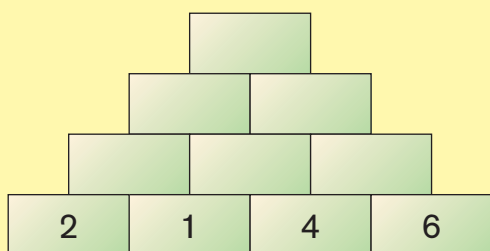
# Number pyramids

## Generalising from number

Look at the first number pyramid and complete the second number pyramid.



Try completing these four-tier pyramids.



Use the same starter numbers, 2, 1, 4 and 6.

Can you get a larger total at the top of the pyramid?

What is the largest total you can get?

In how many different ways can you get this?

Can you explain what is happening?

What is the smallest total you can get?

In how many different ways can you get this?

Can you explain what is happening?

Test out your observations and insights with another set of four different numbers.

Do your observations hold true?

Test out your observations and insights with  $A$ ,  $B$ ,  $C$  and  $D$  in the bottom row.

Can you make any general comments about what is happening?

Extend your thinking to five-tier pyramids.

What about six tiers?