

# Fascinating facts

Choose any four consecutive numbers

4      5      6      7

Find the product of each pair

4	x	5
20		

6	x	7
42		

Find the difference of the products

22

Find the sum of the four numbers you started with.

4	+	5	+	6	+	7
---	---	---	---	---	---	---

What do you notice so far?

Choose a different set of four consecutive numbers and repeat the experiment. Record your results on the chart below. What do you notice?

4 consecutive numbers				
Product of first two numbers		Product of last two numbers		
Difference				

4 consecutive numbers				
Product of first two numbers		Product of last two numbers		
Difference				

4 consecutive numbers				
Product of first two numbers		Product of last two numbers		
Difference				

# Fascinating facts

Choose any three consecutive numbers

3

4

5

Find the squares (multiply by themselves) of the lowest & the highest

9



25

Find the difference of the squares

16

What do you notice about the two highlighted numbers?

Choose a different set of three consecutive numbers and repeat the experiment. Record your results on the charts below. What do you notice?

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		

3 consecutive numbers		
Square of first	Difference of squares	Square of last
What do you notice?		