

Think of a number.



Multiply it by 5.  
Add 2.  
Multiply by 2.  
Subtract 4.  
Divide by 10.  
Try this with different numbers.  
What do you notice?



**Challenge:** Can you explain why this happens?

Think of a number.



Double it.  
Add 15.  
Subtract 5.  
Divide by 2.  
Subtract the number you first thought of.  
Try this with different numbers.  
What do you notice?



**Challenge:** Can you explain why this happens?

Think of a number.



Multiply it by 3.  
Add 3.  
Multiply by 2.  
Add 6.  
Divide by 6.  
Subtract 2.  
Try this with different numbers.  
What do you notice?



**Challenge:** Can you explain why this happens?

## Dig's Tips:

“Try to model what is happening by drawing shapes (e.g. a triangle to represent the number you are thinking of and vertical lines for ones/units). This will help you explain why it happens.”

I've left this space blank for working, if you need it.

