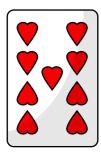
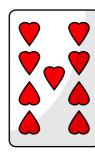


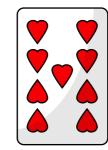


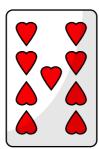
How many hearts are there in total?

Complete the multiplication fact.

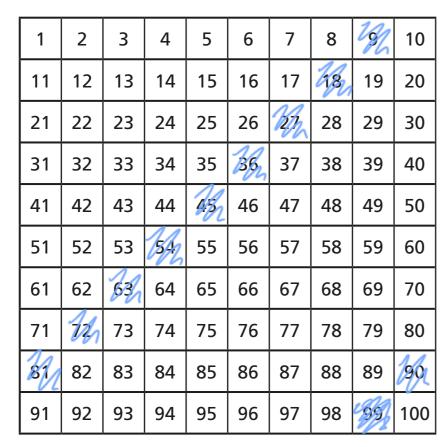








2 Colour all the multiples of 9



What pattern do you notice?



Use the 100 square to complete these calculations.

Complete the calculations.

a)
$$3 \times 9 = 27$$

b)
$$| 68 | \div 9 = 12$$

d)
$$| 9 | \div 9 = 1$$

Complete the number tracks.

0 9 18 27 36 45 54 63

108	99	90	81	72	63	54	45	36
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These numbers are all multiples of 9

45 54 18 108

a) Show that the sum of the digits of each number is the same.

4+5=9 5+4=9 1+8=9 1+0+8=9

b) These numbers are also multiples of 9

198 657 891 999

What is the sum of the digits of each number?

1+9+8=18 6+5+7=18 8+9+1=18 9+9+9=27

I've noticed something about the sum of the digits of numbers that

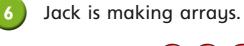
c)

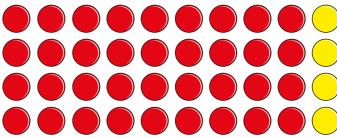


What do you think Whitney has noticed?

are multiples of 9

d) 7,59_ is a multiple of 9
What is the missing digit?





a) Use the arrays to complete the multiplications.

$$3 \times 9 = \boxed{27}$$

b) Write steps for a partner to explain how you can use the 10 times-table to multiply by 9

Multiply by 10 then subtract one lot of
the number. E.g.
$$15 \times 9 = 15 \times 10 - 15 \times 1 = 150 - 15$$

= 135

c) Use your steps to work out these multiplications.

