

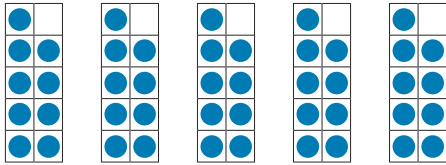
9 Times-Table and Division Facts



- 1) Shade a pathway through the maze counting forward in steps of 9. The first multiple has been shaded for you. You can move vertically, horizontally or diagonally.

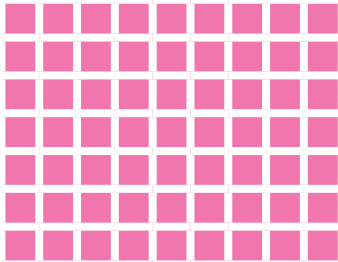
Start	18	28	53	72	81	90
9	17	44	55	63	65	99
18	26	45	54	73	90	108
27	36	55	63	90	109	Finish

- 2) Write a division calculation to match the model.



$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

- 3) Write a fact family to match this array.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

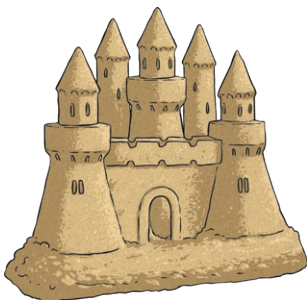
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- 4) Elena used 108 shells to decorate 9 sandcastles. She decorated each sandcastle with the same number of shells.

How many shells did Elena use to decorate each sandcastle?



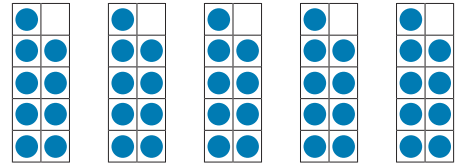
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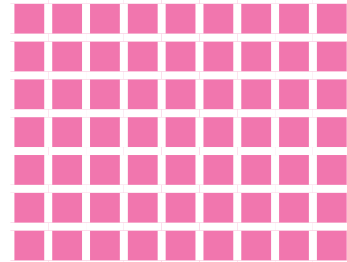
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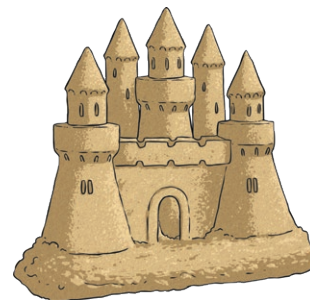
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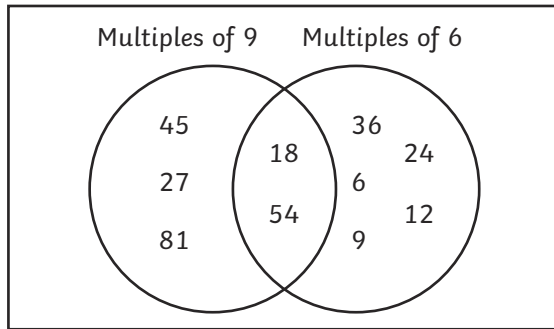
How many shells did Elena use to decorate each sandcastle?



9 Times-Table and Division Facts



- 1) Identify and explain the mistakes in this Venn diagram.



- 2) Which of these calculations do you think is the odd one out? Explain your reasoning.

A $54 \div 9 = 6$

B $5 = 45 \div 9$

C $6 \times 9 = 54$

D $54 = 9 \times 6$

- 3) Is Jia's statement always, sometimes or never true? Prove it!



The digit sum of a multiple of 9 is always 9.

- 4) Find two different strategies to solve this calculation. One should use facts from the 3 times table and the other use facts from the 10 times table.

$9 \times 8 = \underline{\hspace{2cm}}$

- 5) Do you agree or disagree with Elias's statement? Explain why.



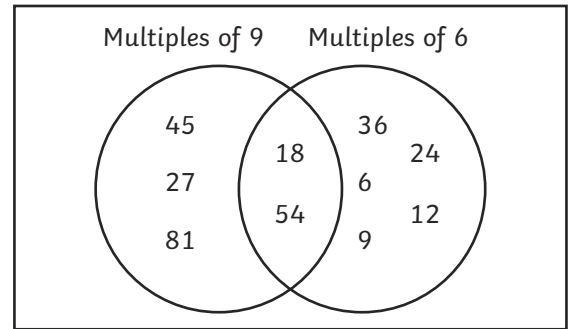
If I know that $11 \times 9 = 99$, I can also work out the answer to $99 \div 11$.



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9 Times-Table and Division Facts



- 1) Some calculations showing the 9 times table have been written using symbols to represent each digit. They have not been written in order.

Use the calculations to find the value of each symbol. Then, rewrite each calculation using digits.

A × =

B × =

C × =

D × =

E × =

F × =

G × =

H × =

I × =

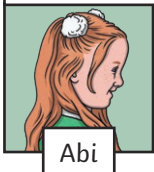
J × =

K × =

L × =

- 2) Use the clues to identify what Abi's number could be. Find all possibilities.

My number is a multiple of 9 but not a multiple of 6. It is less than 100. The sum of the digits is also a multiple of 9.



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