## FDashback



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## (ANSWERS)


E. $80 \times 5=400$ (M)

Monday 22 ${ }^{\text {nd }}$ February 2021
LO: Find a rule - one step

Get ready questions

1) $12 \times \square=84 \quad 12+\square=84$
2) $55 \div \square=5$
$55-\square=5$
3) $\square \div 6=10$
$\square \div 6=20$
4) $\square \times 8=72$
$\square \times 9=72$

Dora is completing the table.


| Number of <br> dogs | 1 | 2 | 3 | 4 | 5 | 10 | 60 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Number of <br> legs |  |  |  |  |  |  |  |

## Dora is completing the table.

She's trying to find a rule to help her find the number of legs 60 dogs would have altogether.

| Number of <br> dogs | 1 | 2 | 3 | 4 | 5 | 10 | 60 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> legs | 4 | 8 | 12 | 16 | 20 |  |  |

Dora is completing the table.
She's trying to find a rule to help her find the number of legs 60 dogs would have altogether.

| Number of <br> dogs | 1 | 2 | 3 | 4 | 5 | 10 | 60 |
| :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| Number of <br> legs | 4 | 8 | 12 | 16 | 20 | 24 |  |

## Dora is completing the table.

She's trying to find a rule to help her find
 the number of legs 60 dogs would have altogether.


Dora is completing the table.
She's trying to find a rule to help her find
 the number of legs 60 dogs would have altogether.

| Number of <br> dogs | 1 | 2 | 3 | 4 | 5 | 10 | 60 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Number of <br> legs | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ | $\times 4$ |  |

Can you help her?

Input
$5 \Rightarrow \times 6 \rightarrow \square$
Output

White
Rese
Maths
Maths


$? \rightarrow-3 \quad \rightarrow 46$

Have a think



Rosie's number


Dexter's answer (output)



Input
 Have a think


What is the input if the output is 32 ?
Heas anting (I)

Input


Have a think

1. Find the missing function.

2. Complete the table for the function machine.

3. Now make a function machine of your own? Remember it needs to have an input, function (or rule) and an output.
4. 

Here is a function machine.


- What is the output if the input is 2 ?
- What is the output if the input is 7.2 ?
- What is the input if the output was 20 ?
- What is the input if the output was 22 ?

2. Eva has a one-step function machine.

She puts in the number 6 and the number 18 comes out.


What could the function be?
How many different answers can you find?

## 3. What do you think 'one step function means'? Explain using an example if you wish.

## 4. What examples of functions do you know?

1. Amir puts some numbers into a function machine.


What is the output from the function when the input is 16 ?
2. Dora puts a number into the function machine.


Dora's number is:

- A factor of 32
- A multiple of 8
- A square number

What is Dora's input? What is her output?
3. Can you now design a new function machine that can have more than one function/rule for the same input and output?
4. How many sets of inputs and outputs do you need to be able
to work out the function? Explain how you know.

