

NO calculator

1. Here is a number machine

$$\text{input} \longrightarrow \boxed{\div 10} \longrightarrow \text{output}$$

Work out the **output** when the input is 40

2. Here is a number machine

$$\text{input} \longrightarrow \boxed{+ 7} \longrightarrow \boxed{\div 3} \longrightarrow \text{output}$$

Work out the **output** when the input is 5

3. Here is a number machine

$$\text{input} \longrightarrow \boxed{- 5} \longrightarrow \text{output}$$

Work out the **input** when the output is 12

4. Here is a number machine

$$\text{input} \longrightarrow \boxed{- 3} \longrightarrow \boxed{\times 5} \longrightarrow \text{output}$$

Work out the **input** when the output is 20

5. (a) Here is a way to convert oven temperatures from a gas mark into °F.

$$\boxed{\text{Temperature } ^\circ\text{F}} = \boxed{\text{Gas mark} \times 25} + \boxed{250}$$

Fletcher needs to convert gas mark 5 into °F.

Work down this temperature in °F.

- (b) You can use this rule to work out the total wage of a delivery driver.

£8 per hour plus tips

Onile works as a delivery driver for 9 hours and got £17 tips.

Work out Onile's total wage.

- (c) Here is the price list for motor racing experience laps.

Moto Experience	
First lap and training	£125
All other laps	£35

Caz has booked and paid for 5 laps.

Work out the total cost of the 5 laps.