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Date:

Function Machines



Mark Score (%) 33

Materials

For this paper you must have:

- Ruler
- Pencil, Rubber, Protractor and Compass
- Scientific calculator, which you are expected to use when appropriate

Instructions

- Answer all questions
- Answer questions in the space provided
- All working must be shown
- Do all rough work in this book. Cross out any rough work you don't want to be marked

Information

• The marks for the questions are shown in brackets

- examoa .com	Leave
1 Here is a number machine.	blank
Input \longrightarrow x5 -3 \longrightarrow Output	
(a) What is the output when the input is 7?	
(1)	
Here is a different number machine.	
Input \longrightarrow + 11 \longrightarrow Output	
When the input is 9 the output is 2.	
(b) Complete the number machine. (1)	
(Total for question 1 is 2 marks)	











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9	A rule to change from temperate measured in degrees Celsius (°C) to degrees Fahrenheit (°F) is	Leave blank
	Multiply the temperature in degrees Celsius by 1.8 then add 32	
	The temperature in London is 12°C.	
	(a) Work out the temperature, in London, in Fahrenheit (°F)	
	The temperature in New York is 54°F (2)	
	(b) Work out the temperature, in New York, in Celsius (°C)	
	(2)	
	(Total for question 9 is 4 marks)	
10	A rule to calculate a taxi fare is	
	£2.50 plus £2.20 per mile	
	(a) Work how much a 10 mile taxi journey would cost.	
	A taxi journey costs £20.10 (1)	
	(b) Work out distance of the journey.	
	(2)	
	(Total for question 10 is 3 marks)	