



FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 1

Formulas

Materials

- You **cannot** use a calculator for **questions** with this symbol.



Instructions

- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

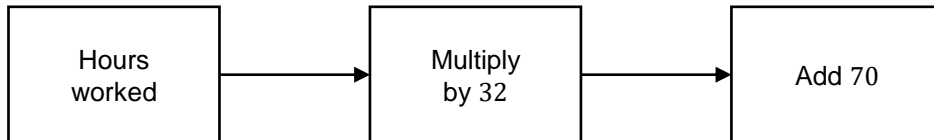


- Q1** Jimmy earns £11.20 per hour. How much will Jimmy earn in 7 hours?
[1 mark]
- Q2** Nabila works in a factory where she packs tins of biscuits. She can pack 3 tins of biscuits in 1 minute. How many tins of biscuits can she pack in 1 hour?
[1 mark]
- Q3** Jeremi is a runner. He can run 1 km in 6 minutes.
- 3(a)** How long would it take him to run 5 km?
[1 mark]
- 3(b)** How long would it take him to run 8 km?
[1 mark]
- Q4** A shoulder of lamb takes 40 minutes per kilogram to cook, plus an extra 25 minutes. How long would it take to cook a 1.2 kg shoulder of lamb?
[2 marks]
- Q5** Maggie hires a boat on holiday. The boat hire company charges a fixed rate of £20 to hire the boat, plus £3.50 per hour of hiring. How much would it cost Maggie to hire the boat for 3 hours?
[2 marks]
- Q6** Abdul is getting new broadband. The broadband company charge a one-off installation fee of £30, plus £24.50 per month of usage. Abdul wants this broadband for 18 months. How much would this broadband cost him in total?
[2 marks]
- Q7** Dean is going to buy a phone. The phone company charge £32 per month for the phone, but as a reward for its customers they give the customer £50 cash back for purchasing the phone. Dean buys this phone on a 12 month contract. How much would it cost him altogether?
[2 marks]
- Q8** Dev wants to buy some pic-n-mix sweets. The sweets cost £2 for the first 100 g of sweets, plus 80p for each additional 100 g. Dev has £5 and wants to buy 400 g of sweets. Will he have enough money? Show your working.
[3 marks]

Q9 Haroon needs to pay for a taxi. The taxi driver charges a fixed fee of £2.50 plus an additional £1.20 per mile. Haroon travels 4.6 miles and pays with a £10 note. How much change will he receive?

[3 marks]

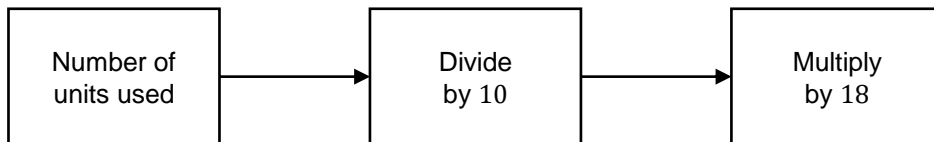
Q10 This function machine helps Mary to work out how much it will cost her to hire an electrician (in £).



The electrician worked for 12 hours in total. Work out how much it will cost Mary to hire the electrician.

[2 marks]

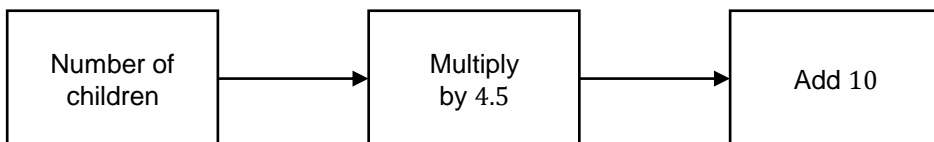
Q11 Susan uses this function machine to work out her gas bill for the year (in £).



Susan used 250 units in one year. How much will this cost her?

[2 marks]

Q12 A school teacher uses this function machine to work out how much it will cost her to take all of the children in her class to the cinema (in £).

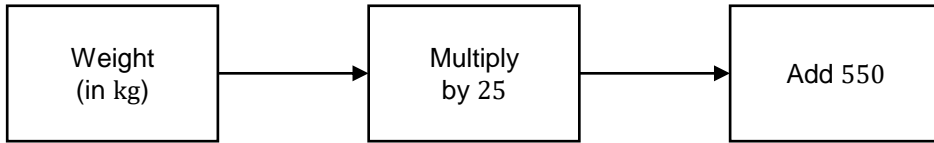


There are 23 children in her class. How much will this cost her?

[2 marks]

Q13

Dan uses this function machine to work out how many calories he should have in a day.

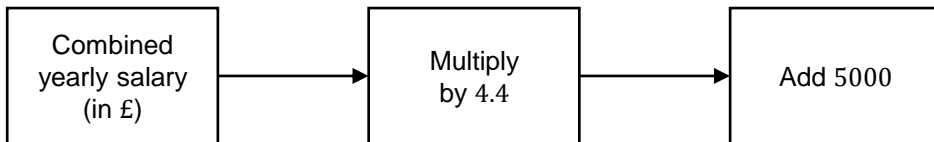


Dan weighs 75 kg. Dan says that he should have more than 2500 calories in a day? Is he correct?

[3 marks]

Q14

Aoife and her partner want to get a mortgage on a house. They want to know the maximum amount of money they can borrow from the bank. The bank tell them to work it out using this rule:



This will give them the maximum amount of money they can borrow from the bank. Aoife and her partner's combined salary is £52000.

Aoife and her partner want to borrow £230000 from the bank. Is this more or less than the maximum amount of money they can borrow from the bank?

[3 marks]