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Functional Skills Mathematics (4748)

Entry 2 Sample Assessment



www.cityandguilds.com
March 2020
Version 1.2

Candidate's paper – Calculator allowed

Holidays

Time allowed – 65 minutes

Marks: 27

Name: _____

City & Guilds Enrolment Number: _____

Date of registration: _____

Date of assessment: _____

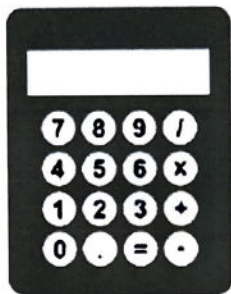
You will need

- a calculator
- a pen with black or blue ink
- a pencil
- a rubber
- a ruler.

You may use a dictionary.

Instructions

- Read each question carefully.
- Answer **all** the questions.



Candidate's declaration:

I confirm that this assessment is my own work.

Candidate's signature _____

Date _____

Calculator paper

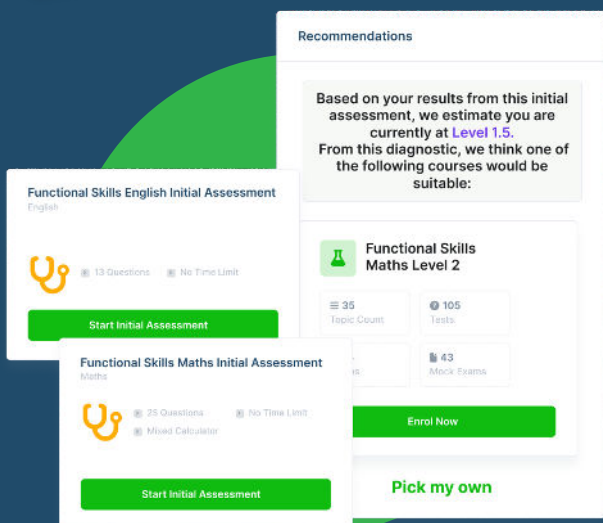
There are **27** marks available.

You may use a calculator.



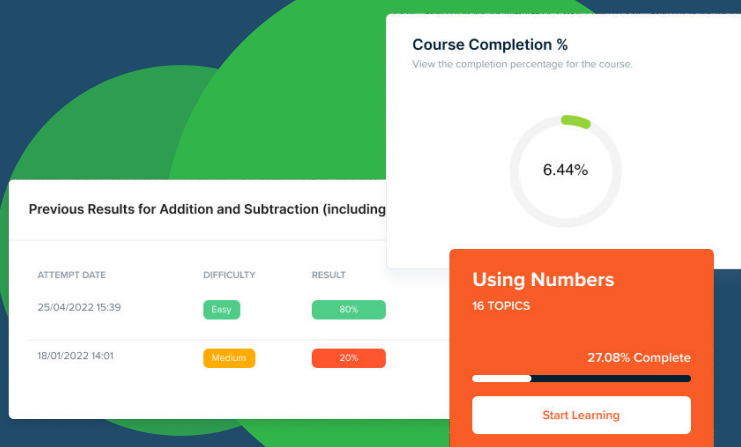
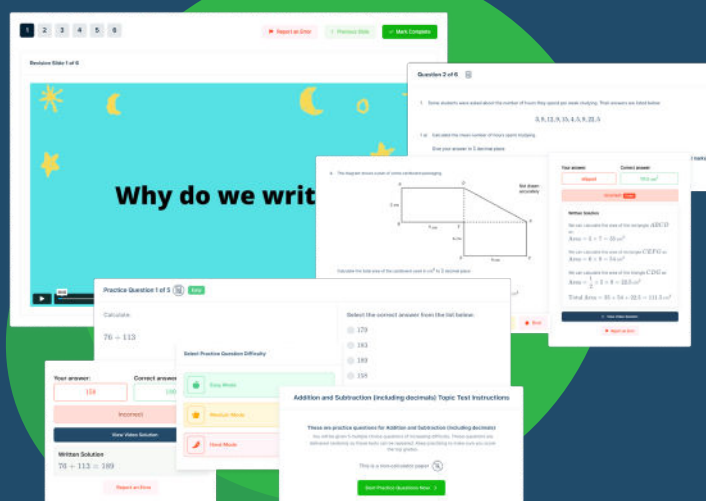


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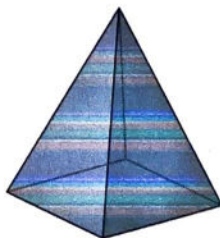
Q1

How many hours are in one day?

1 mark

24

Q2



How many edges does a square based pyramid have?

- A. 4 ☐
- B. 5 ☒
- C. 6 ☐
- D. 8 ☐

1 mark

Q3



What fraction of the rectangle is coloured in grey?

1 mark

 $\frac{1}{10}$

Q4 The weather forecast for the **UK** next week is **21 °C** every day.
Here is the weather forecast for Spain next week.

Weather forecast for Spain						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
23°C	22°C	19°C	20°C	24°C	26°C	25°C
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

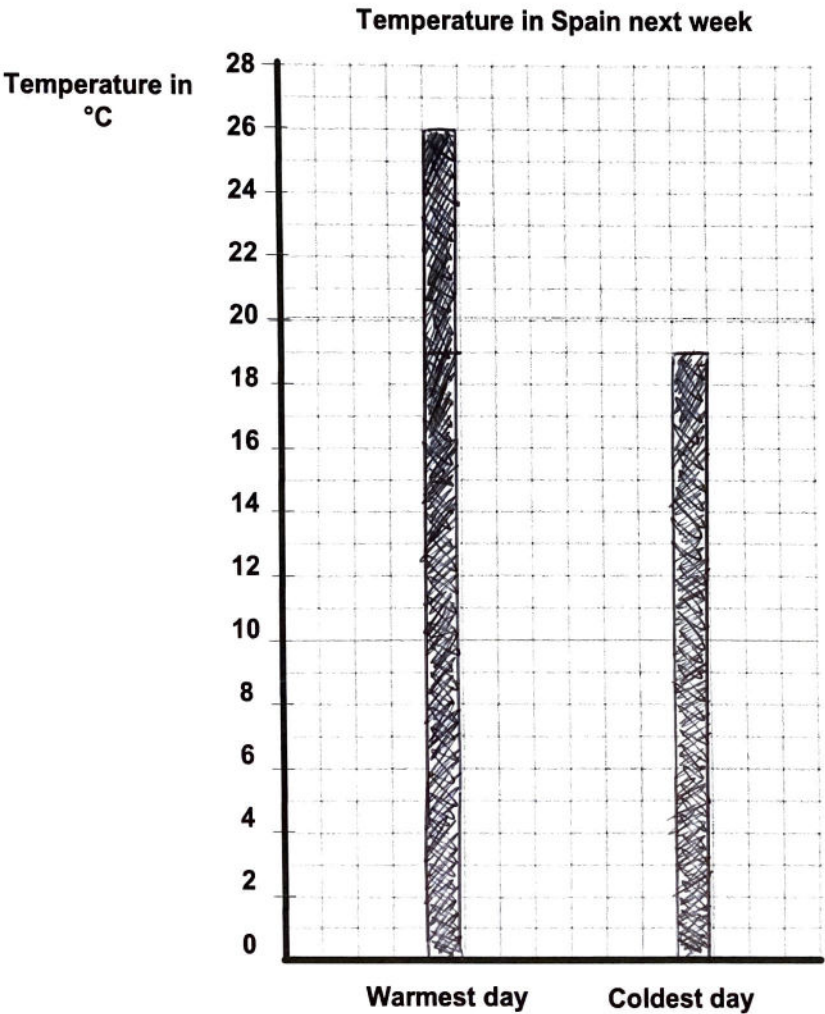
a Which days will be warmer in Spain than in the UK?
Tick all those days.

2 marks

b A travel agent needs a chart to show the temperatures of the warmest day and coldest day in Spain next week.

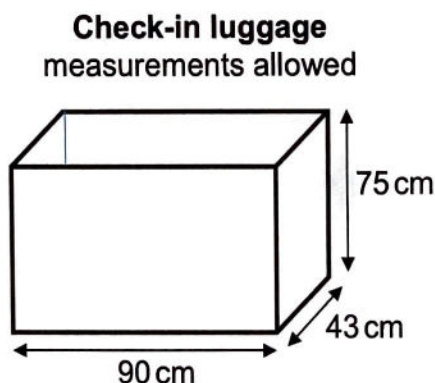
Draw **two** bars to finish the bar chart.

4 marks



Q5 This diagram shows the maximum measurements for hand luggage that you are allowed to check-in on a plane.

It is a box, shaped like a cuboid, with sides and a base, but no top.



- a** What shape is the base of the box?

..... Rectangle

1 mark

- b** What is the length of the **largest** side?
Give units with your answer.

..... 90cm.

1 mark

Q6 A man wants a new case to take on the plane.

The case is in the sale.

In the sale, all cases are half the price shown.



a

What is the price of the case in the sale?

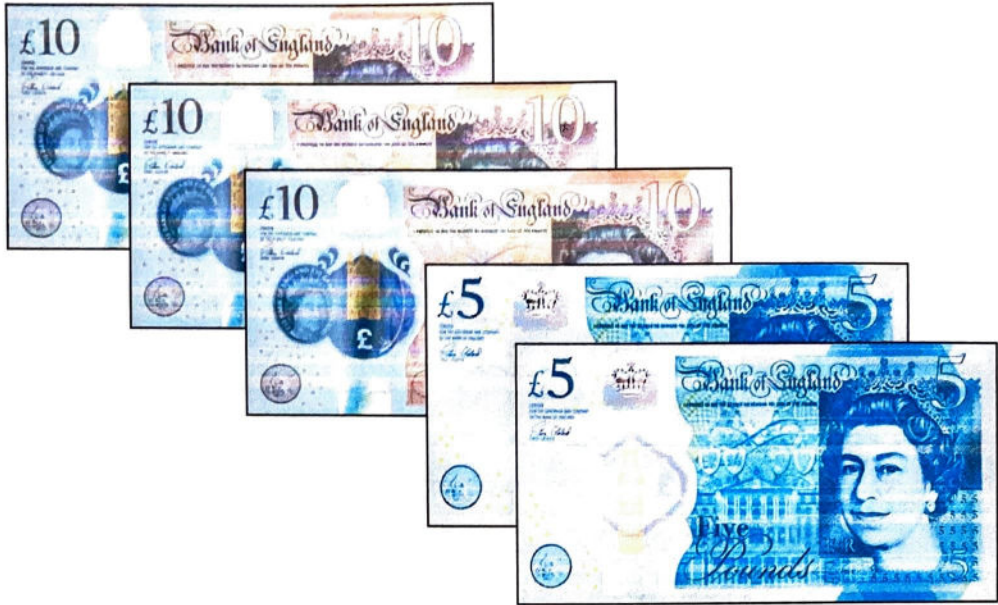
Show your working out.

$$\frac{£36}{2} = £18.$$

Sale price £18.....

2 marks

The man only has these notes.



- b How much money does he have altogether?

Show your working out.

$$(\pounds 10 \times 3) + (\pounds 5 \times 2) = \pounds 30 + \pounds 10$$

$$= \pounds 40$$

Amount of money £ 40

2 marks

- c The man buys a bag and a wallet instead.
This bag costs £24 and the wallet costs £7.

How much money will he have left? **Give units with your answer.**

Show your working out.

$$\pounds 24 + \pounds 7 = \pounds 31$$

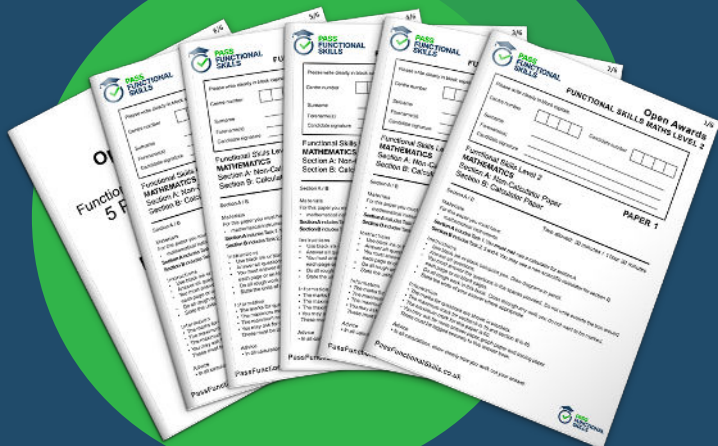
$$\pounds 40 - \pounds 31 = \pounds 9$$

Money left £9.

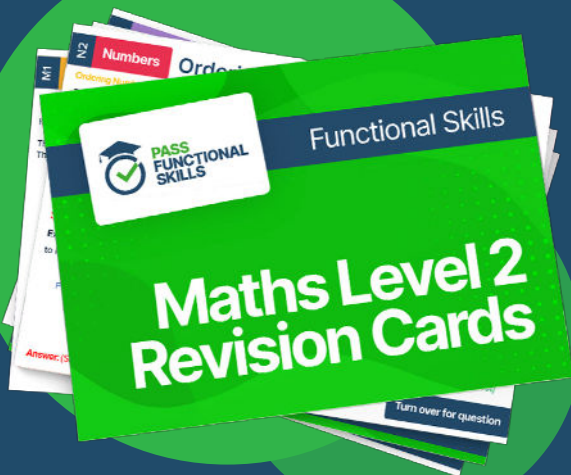
3 marks



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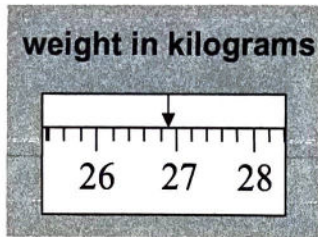
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Q7 A passenger checks the weight of her suitcase.



This table shows how much it costs to take a suitcase on a plane.

Weight of suitcase	Cost
less than 10 kg	£5
10 kg to 20 kg	£15
over 20 kg to 30 kg	£25
over 30 kg	£35

a How much does the passenger's suitcase weigh to the nearest kilogram?

..... 27 kg

1 mark

b How much will it cost to take the suitcase on the plane?

Cost £ 25

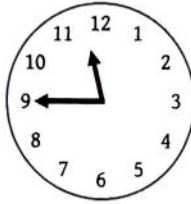
1 mark

c Give a reason for your answer.

27kg is between 20kg and 30kg.

1 mark

- Q8** A passenger's flight leaves at **twelve o'clock**.
He checks his watch.



- a** Has his plane left?

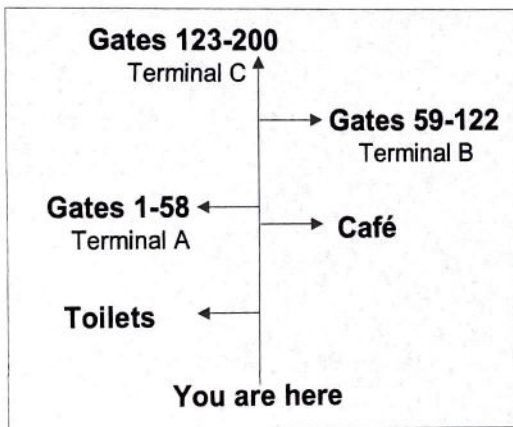
No.

Write down how you got your answer.

The watch shows 11:45, which is
before 12:00.

1 mark

His flight leaves from Gate 105. This sign shows the Gates at the airport.



- b** In which terminal is **Gate 105**?

Terminal.....B.....

1 mark

- c** Write down how to get to **Gate 105**.

Head straight forward. Terminal B is
the right-hand turn after the café.

1 mark

- Q9** A customer wants to know the cost to fly to Glasgow.
She finds these ticket prices on an airline's website.

Ticket prices

8am flight	£86
2pm flight	£95
10pm flight	£89

Suitcase

£56

Extras

Choose seat, Board first, One extra bag All £12 each

The customer wants the **cheapest** priced ticket. She wants to take a suitcase, choose her seat, board first and take an extra bag.

- a** How much will the customer pay?

Show your working out.

$$£86 + £56 + £12 = £154$$

Amount to pay £ 154

2 marks

The woman thinks it is cheaper to travel by train. She finds these prices

Train prices to:

Dundee	£198
Edinburgh	£192
Glasgow	£168

- b** Is the woman correct?
Use numbers to explain your answer.

No, £154 is less than

£168.

1 mark

Total marks: 27

End of calculator paper.

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