

Maths Initial Assessment V5.1



Learner's Name

Employer's Name

Learner's Score

Learner's Level

Date of Assessment

Learner's Signature

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Part 1

- 1) Jason, Sandeep and Liam have gone swimming.

They need 20p for the lockers.

Tick the 20p coin.



Crown Copyright



- 2) Jason's jeans are the longest. Which pair of jeans is the longest?

Tick the correct answer.



Number 1

Number 2

Number 3

- 3) The friends put their clothes into lockers.



You are facing the lockers. Where is Liam's locker?

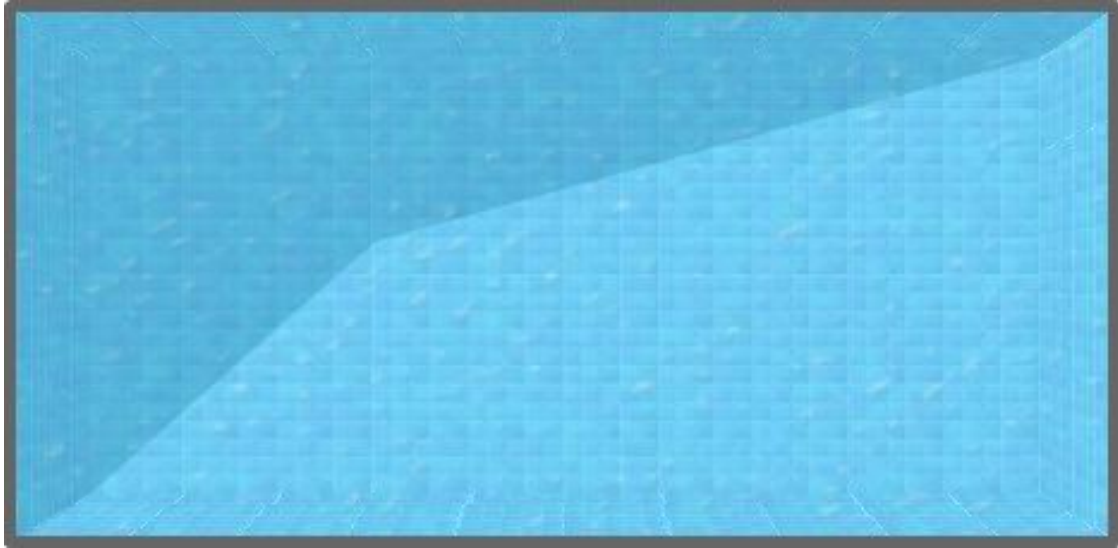
Tick the correct answer.

- a) above Sandeep's locker
- b) below Sandeep's locker
- c) to the left of Sandeep's locker
- d) to the right of Sandeep's locker

- 4) There are 5 people already in the pool. Jason and his 2 friends get in.

How many people are in the pool now?

- 5) This is the shape of the pool. What shape is it?



Tick the correct answer.

Square

Circle

Triangle

Rectangle

- 6) It is time for the swimmers wearing spotty wristbands to get out.



How many swimmers get out of the pool?

- 7) Emma and her friend are going on a bus trip for the day.

Here are the places they can choose to go.

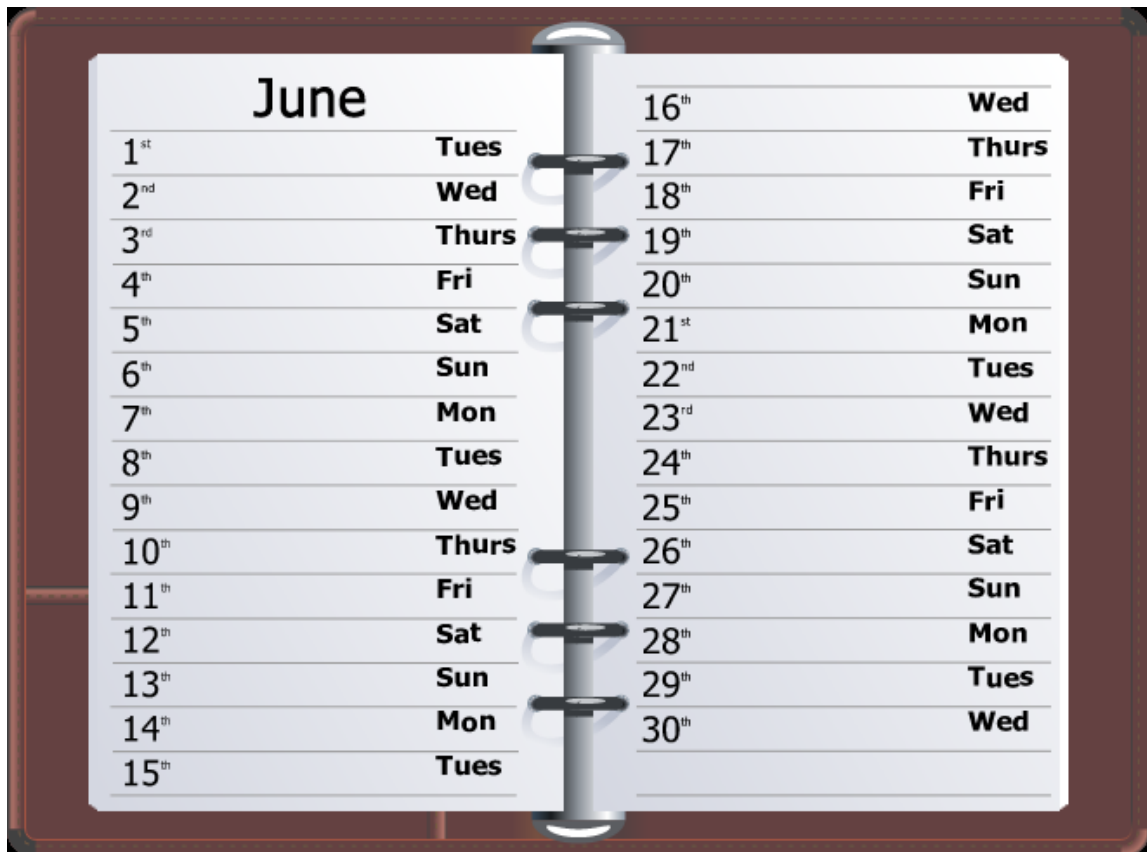
Nottingate £5
Summerville £3
Lupton £6
Langdale £4

They decide to go to Langdale. Emma pays for 2 tickets to Langdale with a £10 note.

How much change will she get?

- 8) The bus trip to Langdale runs every Friday. Emma buys the tickets on the 19th June.

She and her friend want to go on the next available trip. Circle the date Emma and her friend go to Langdale.



- 9) The bus leaves at 10.15 am.

Tick the correct clock showing this time.



- 10) There are 18 people waiting in the bus queue. Half of them are going to Langdale.

How many people are going to Langdale?

- 11) Emma and her friend arrive in Langdale and decide to go for a coffee. The owner of the café is giving a free cupcake to every 4th customer. Emma is the 17th customer that morning.

Will she get a free cupcake?

Yes / No

- 12) On the way to Langdale there were 19 people on the bus. On the journey home there were 23 more people on the bus.

How many people are on the bus on the way home?

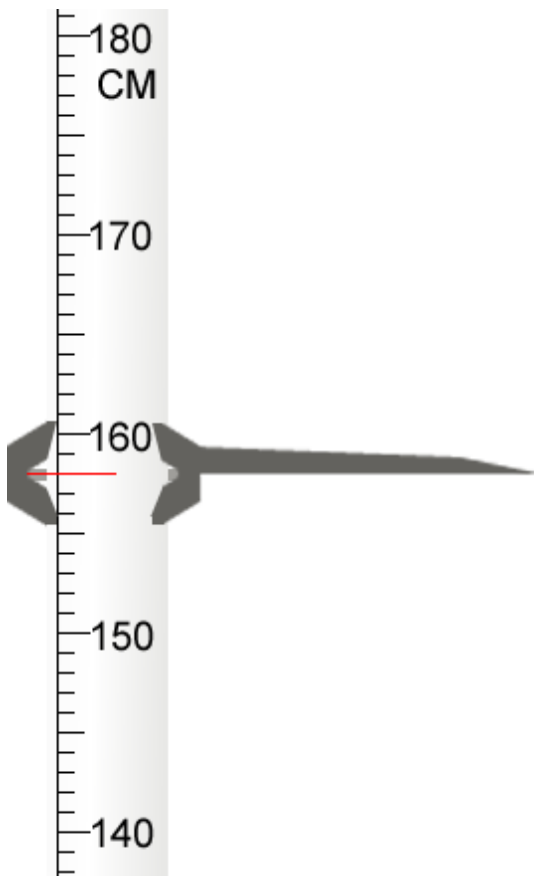
- 13) Diane has a hospital appointment. When she arrives at the hospital, the car park is nearly full.

There are a total of 534 car parking spaces but 476 are already occupied.

How many spaces are available to park in?

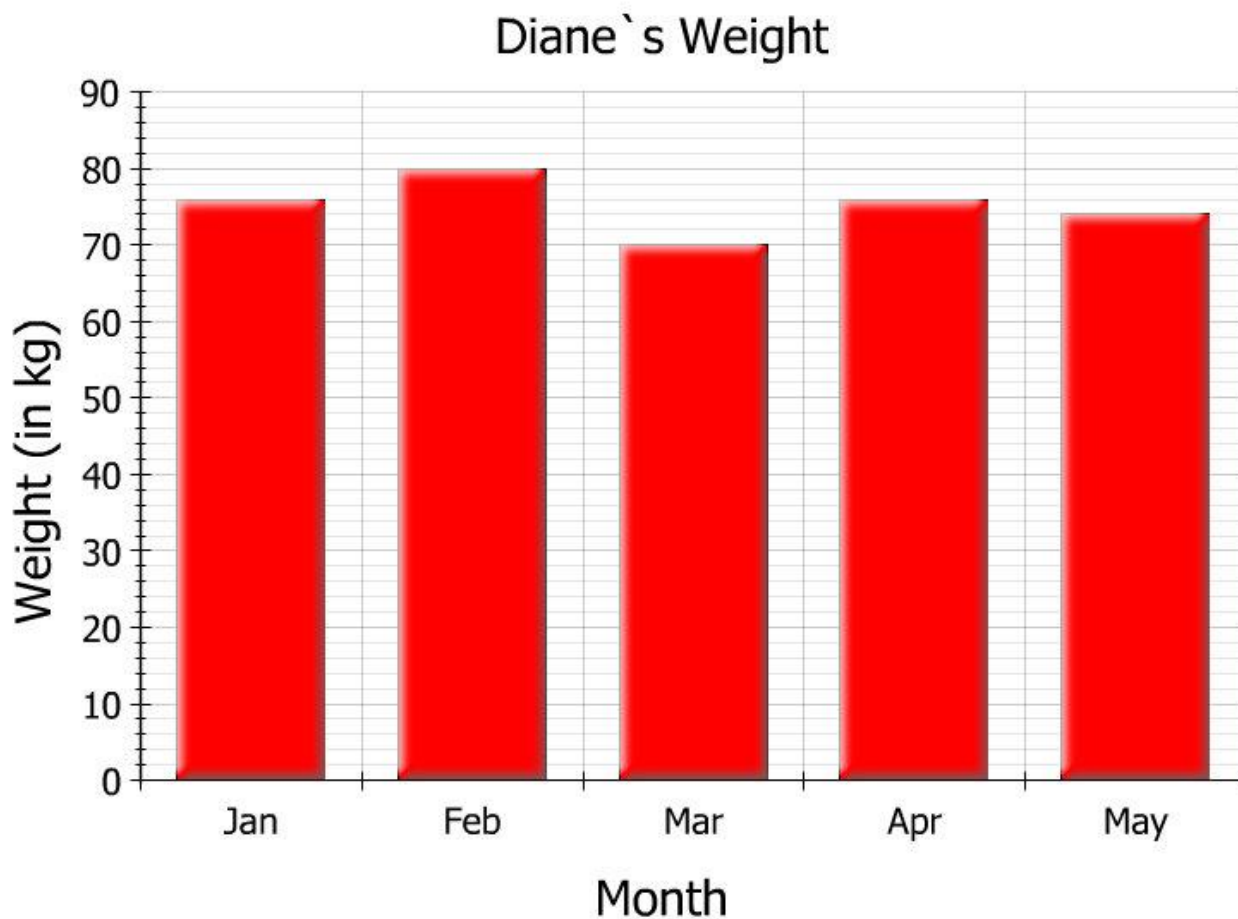
- 14) Diane's height and weight needs to be completed on her chart.

What height is Diane?

 cm

15) The chart below shows Diane's weight over the last 5 months.

In which month did Diane weigh 70 kg?



- 16) The hospital shop buys cereal bars in boxes of 4. In one day they sell 58 individual cereal bars.

How many **boxes** of cereal bars did they open that day?

boxes

- 17) At the start of the day there was £129.75 in the till. One hour later there is £145.50.

How much money did the shop take in an hour?

- 18) Diane goes to pay for her car parking. She arrived at the car park at 2.15 pm and leaves at 4.45 pm on Thursday.



How much does Diane pay for her car parking?

£

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Part 2

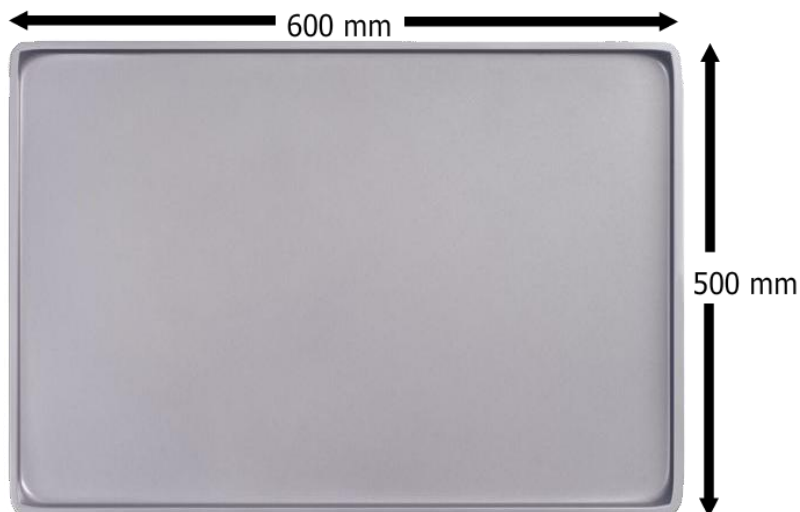
- 1) Jenny runs a cake making business. She receives an order for 6 carrot cakes. Here are the ingredients for 1 carrot cake.



How much mixed spice will she need for 6 cakes?

teaspoons

- 2) Here are the dimensions of the oven tray Jenny bakes the cakes on.



A cake tin is 25 cm in diameter. How many cake tins can Jenny fit on the oven tray at one time?

- 3) Bob is having a party and wants to order some cakes.



There will be 57 guests and he wants to make sure everyone gets a slice of cake.
He wants to pay as little as possible for the cakes for them to be the same size.

How much will he have to pay for the cakes?

£

- 4) Jenny charges for delivering the cakes.

Delivery Charges

£4 fixed cost + 60p per mile

Bob lives 12 miles away.

How much will Jenny charge to deliver the cakes?

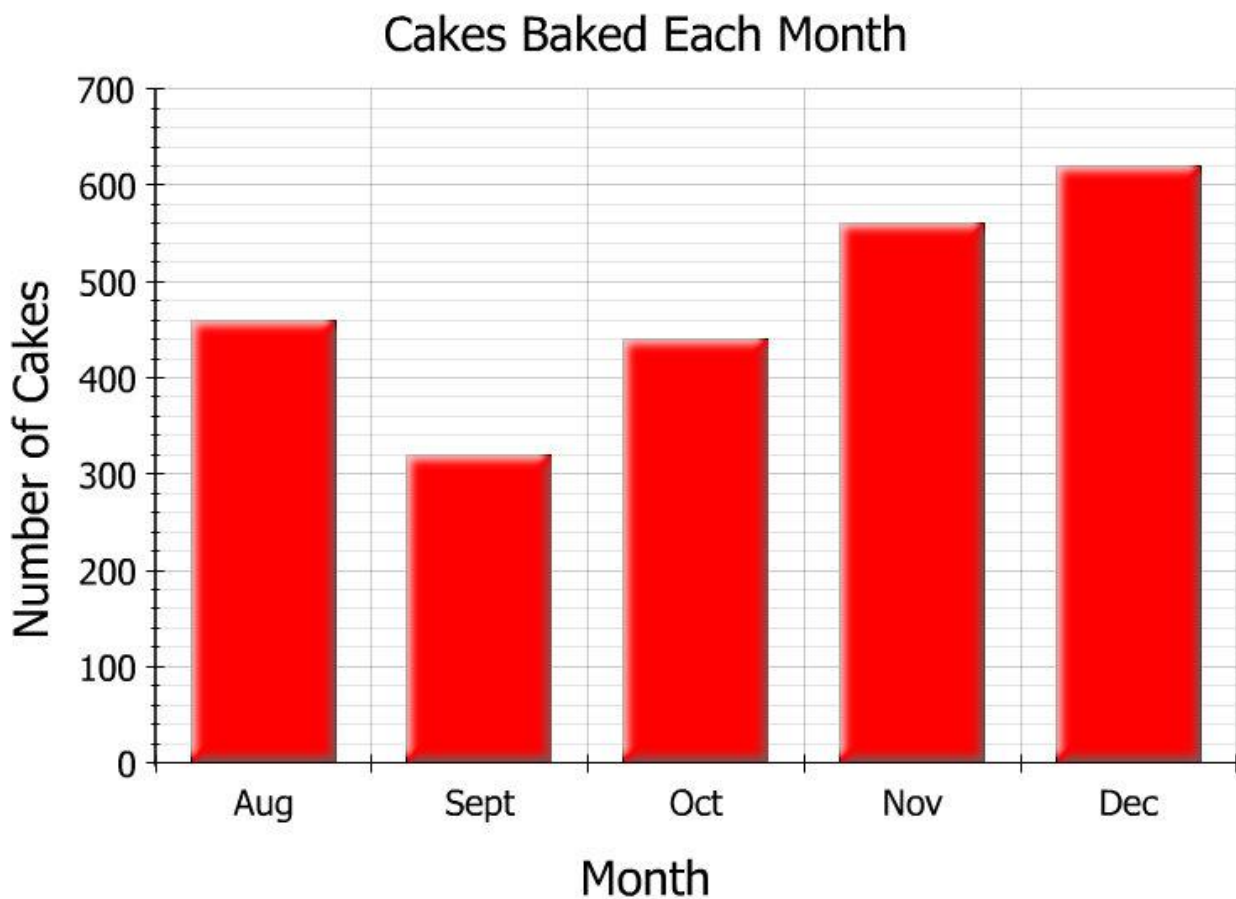
£

- 5) 50% of all the cakes Jenny baked that week were party cakes, $\frac{1}{5}$ were fruit cakes, and the remainder were sponge cakes.

What percentage of cakes were sponge cakes?

 %

- 6) The chart below shows the number of cakes Jenny bakes each month.



What is the mean number of cakes Jenny bakes in a month?

- 7) A calculator may be used for this question.

Adam is going to cook a turkey for 14 people and wants to allow $\frac{3}{4}$ lb of turkey for each person. 1lb = 450 g

TURKEY SALE

Turkey Sizes

small	2 kg - 3.9 kg
medium	4 kg - 5.4 kg
large	5.5 kg - 7.2 kg
extra large	7.3 kg - 9.2 kg



Turkey Prices

small / medium	£5.99 per kg
large / extra large	£4.99 per kg

How much would a turkey cost for 14 people?

£

- 8) Here are the cooking instructions for the turkey.

Cooking Instructions	
Weight	Cooking times
Less than 4 kg	Allow 20 minutes per kg, plus 70 minutes
Over 4 kg	Allow 20 minutes per kg, plus 90 minutes
Always leave the turkey to rest for 30 minutes before carving, to retain the moisture.	

Adam buys a bigger turkey than he needs. The turkey he buys weighs 7 kg. He plans to carve the turkey at 17:15.

What time should he start cooking the turkey?

:

- 9) **A calculator may be used for this question.**

The energy saving from recycling one glass bottle will power the oven Adam uses to cook the turkey for 7.5 minutes.

Glass used for recycling costs 5p per kg.

A glass bottle weighs 500 grams.

How much would the recycled glass cost to power the oven for 6 hours?

£

- 10) Adam uses coconut milk for the dessert. The coconut milk is in a can but he doesn't know how much the can holds.

The can is 12 cm high and the diameter is 8 cm.



Using the formula $V = \pi r^2 h$, work out how much coconut milk is in the can.

Use 3 as a value for π .

Give your answer using the correct units .

- 11) Adam's sister wants to watch her intake of fat per day.

Here is a guideline of the recommended daily allowances.

Typical values	Women	Men
Calories	2000 kcal	2500 kcal
Protein	45 g	55 g
Carbohydrate	230 g	300 g
Sugars	90 g	120 g
Fat	70 g	95 g
Saturates	20 g	30 g
Fibre	24 g	24 g
Salt	6 g	6 g

Adam estimates that the dinner will have 48 grams of fat.

What percentage of her total daily allowance of fat will the dinner be?

(Round your answer to a whole number.)

 %

- 12) Adam and his dad share the cost of the meal in the ratio of 2:3.

Adam's dad pays £52.20.

What is the total cost of the meal?

£