

2020 national curriculum tests

Key stage 2

Mathematics

Paper 2: reasoning

| | | | | | | |
|---------------|-----|--|-------|--|------|--|
| First name | | | | | | |
| Middle name | | | | | | |
| Last name | | | | | | |
| Date of birth | Day | | Month | | Year | |
| Star sign | | | | | | |
| Shoe size | | | | | | |

Instructions

You have **40 minutes** to complete this 'test'.

You **may not** use a calculator to answer any questions in this test. (I mean no-one is checking....)

If you cannot do a question, **go on to the next one**.

You **may not** speak to other people (why not involve your family too!)

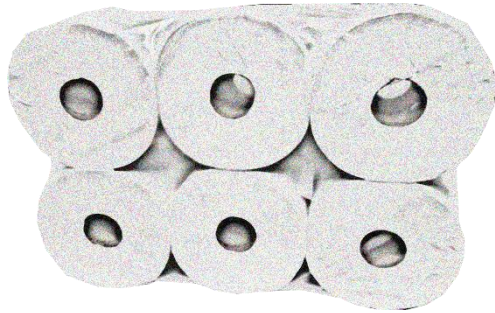
Marks

The number under each line at the side of the page tells you the number of marks available for each question.

Bonus questions can earn between 1-3 marks depending on how good your explanation is. Ask your family to decide what they think you deserve!

1

Bob is running out of toilet roll. Sarah has 4 packs of toilet roll that have 6 toilet rolls in each pack. She begrudgingly gives 5 toilet rolls to Bob.

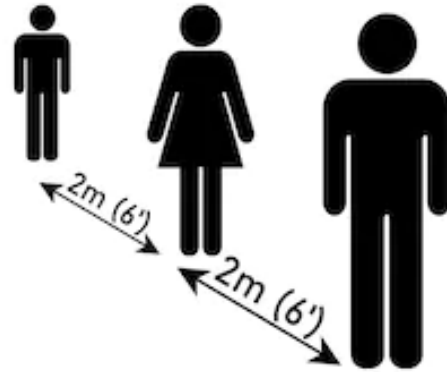


How many toilet rolls does Sarah have left after giving some to Bob?

1 mark

2

Dave is standing waiting in the rain in the queue at Tesco. There are 11 people in the queue, including Joe, and each person has to stand 2m apart.



Approximately, how long is the queue in **metres**?

2m is approximately equal to 6 feet (6').

Approximately, how long is the queue in **feet**?

3

Ashley really misses eating McDonalds breakfasts so he is planning what he will order when it reopens.

| Breakfast | Individual Price | Meal Price | | |
|---|------------------|------------|---|--------------------------------------|
| Breakfast Wrap (meal excludes hash brown) | £2.59 | £3.59 | Quaker Oatso Simple [®] Porridge | 99p |
| Big Breakfast [™] | £2.39 | £3.39 | with Jam | 99p |
| Sausage, Egg & Cheese Bagel | £2.09 | £3.49 | with Syrup | 99p |
| Bacon, Egg & Cheese Bagel | £2.09 | £3.49 | Bagel | with Philadelphia [®] Light |
| Sausage & Egg McMuffin [™] | £1.99 | £3.39 | with Jam | 99p |
| | | | with Butter | 99p |
| | | | with Flora [®] Original | 99p |
| | | | Hash Brown | 79p |

He decides that he would get a Sausage & Egg McMuffin[™] meal with two extra hash browns.

How much **change** would he get from £10.00?

2 marks

4

Boris Johnson's new baby Wilfred (aww) was born on 29th April.



How many days old will he be on May 15th?

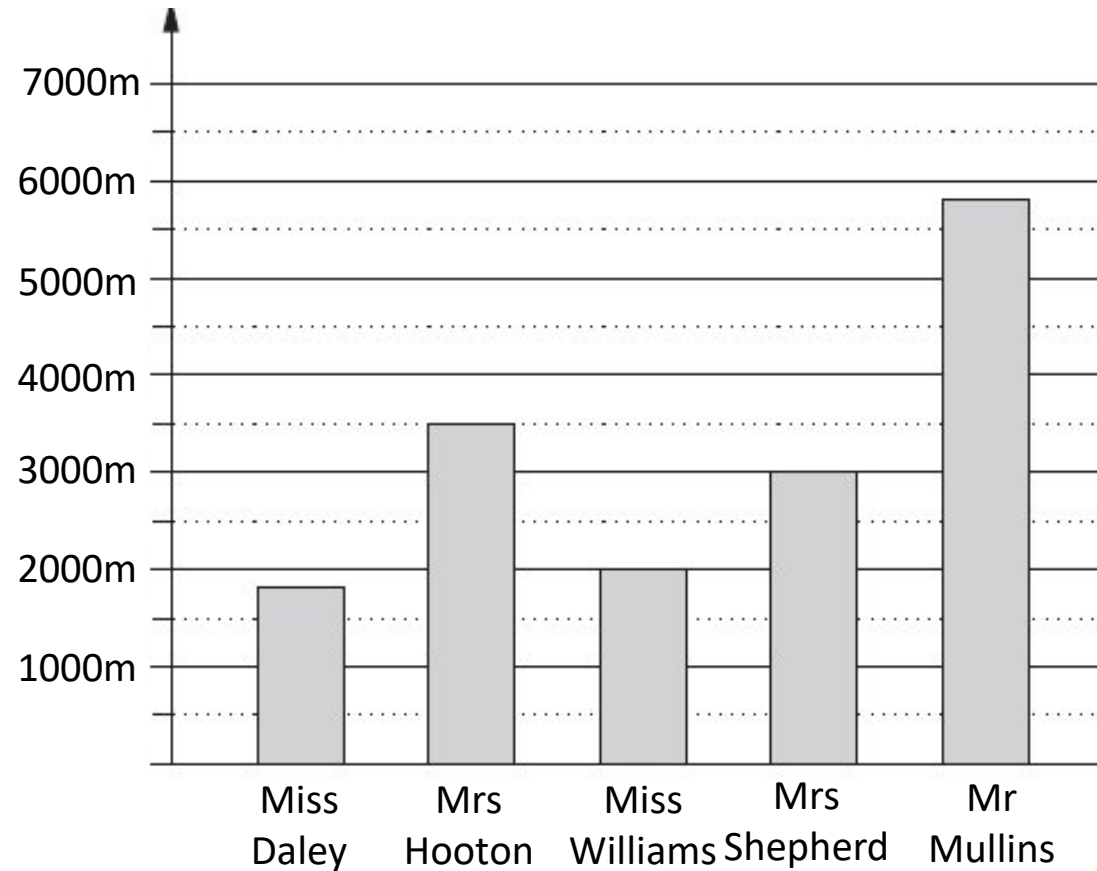
1 mark

BONUS

If you could pick a middle name for baby Wilfred, what would you choose? Why? Explain your answer.

5

This graph shows the average distance each teacher travels on their daily walk.



Who walks on average between 3km and 4km each day?

6

Miss Daley is baking for the first time (true story) and she wants to make banana bread using the following recipe.

140g butter, softened, plus extra for the tin

140g caster sugar

2 large eggs, beaten

140g self-raising flour

1 tsp baking powder

2 very ripe bananas, mashed

50g icing sugar

She only has 1 egg left in her fridge so adjusts the recipe.

How much icing sugar should she use?

1 mark

BONUS

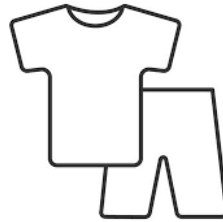
How successful do you think Miss Daley's first attempt at baking will be? Give reasons for your answer.

7

Mrs Hooton has barely been getting dressed properly and has mostly been wearing pyjamas at home. She has three different pairs, each with a t-shirt and shorts: a blue pair, a pink pair and a pair with dogs on. She mixes these up and doesn't care if they match.

Write the two missing pyjama combinations.

- blue top and blue shorts
- blue top and pink shorts
- blue top and dog shorts
- pink top and blue shorts
- pink top and dog shorts
- dog top and dog shorts
- dog top and pink shorts



_____ and _____

_____ and _____

2 marks

8

Each Thursday, the 'clap for our carers' takes place at 8.00pm.



What does 8.00pm look like on a 24 hour clock?

1 mark

- 9 It was rumoured that the government were going to build a giant lasagne inside Wembley Stadium to help feed everybody (this was fake news). This would be approximately 805,000,000 portions of lasagne!



In the number 805,000,000 which **digit** is in the **millions** place?

1 mark

BONUS

Do you think a giant lasagne would be more tasty or less tasty than a normal sized lasagne? Explain your thinking.

10

Miss Williams uses the following formula to decide how many coffees to drink each day whilst she is at home.

$$\text{Number of coffees} = 16 - (\text{number hours of sleep} \times 2)$$

If Miss Williams has 7 hours sleep, how many coffees does she have on that day?



Last Sunday, Miss Williams drank 4 coffees.

How many hours sleep do you think she had the night before?