# 2019 national curriculum tests

## Key stage 2

# MATHEMATICS

## Modified large print

## Paper 3: reasoning

**First name** _____

**Middle name** _____

**Last name** _____

**Date of birth** **Day** _____ **Month** _____ **Year** _____

**School name** _____

**DfE number** _____

**Note to markers:**

**This paper should be marked using the modified large print amendments to the mark schemes – MLP with the standard mark schemes for KS2 Mathematics: Paper 3.**

STA/19/8218/MLp

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# Instructions

**You must not use a calculator to answer any questions in this test.**

## Questions and answers

**You have 40 minutes to complete this test, plus your additional time allowance.**

**Follow the instructions for each question.**

**Work as quickly and as carefully as you can.**

**If you need to do working out, you can use any space on the page.**

**Some questions say ‘Show your method.’**
**For these questions, you may get a mark for showing your method.**

**If you cannot do a question, go on to the next one.**
**You can come back to it later, if you have time.**

**If you finish before the end, go back and check your work.**

1. **The original price of a car is £8 999**

   **In a sale there is £1 100 off the original price.**

   **What is the sale price of the car?**

   **£ _____**

2. **Look at this number**

   **3 576 219**

   **Which digit is in the ten thousands place?**

   _____

   **Round 3 576 219 to the nearest million.**

   _____

**3.** **Dev had £10**

**He gave some money away.**

**p is the amount of money, in pounds, that Dev gave away.**

**Look at the five expressions below.**

**10 + p**

**10 ÷ p**

**p – 10**

**10 – p**

**p × 10**

**Write the expression that shows how much money Dev has left.**

_____

**4.** **Look at the four masses below.**

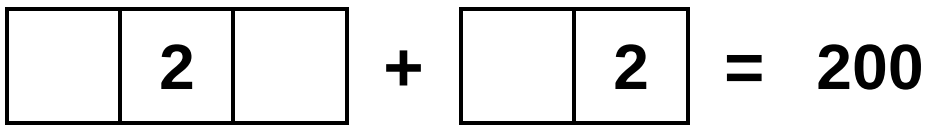
**1·25 kg  0·99 kg  1·025 kg  0·009 kg**

**Write the masses in order, starting with the lightest.**

_____

**lightest**

**5.** **Look at the addition below.**




**Write the missing digits in the three boxes to make this addition correct.**

**6.** **John buys one toy car and one pack of stickers.**

**The toy car costs £1·49**

**The pack of stickers costs £1·64**

**He pays with a £10 note.**

**How much change does John get?**

**Show your method.**

**£_____**

**7.** **The list below shows the masses of eight kittens.**

| | | | |
|---|---|---|---|
| **305 g** | **375 g** | **310 g** | **255 g** |
| **275 g** | **410 g** | **360 g** | **345 g** |

**What is the difference in mass between the heaviest kitten and the lightest kitten?**

**_____g**

**The masses of the kittens are to be put in four groups.**

**Write the missing numbers in the table below.**

**One has been done for you.**

| Mass in g | Number of kittens |
|---|---|
| 250 - 299 | |
| 300 - 349 | |
| 350 - 399 | |
| 400 - 449 | 1 |

**8.** **Ken is playing a game.**

**He has 4 289 points.**

**Then he scores another 355 points.**

**Ken's target is 6 000 points.**

**How many more points does Ken need to reach his target?**

**Show your method.**

**9. The pictogram below shows the number of satellites above the Earth in 2016.**

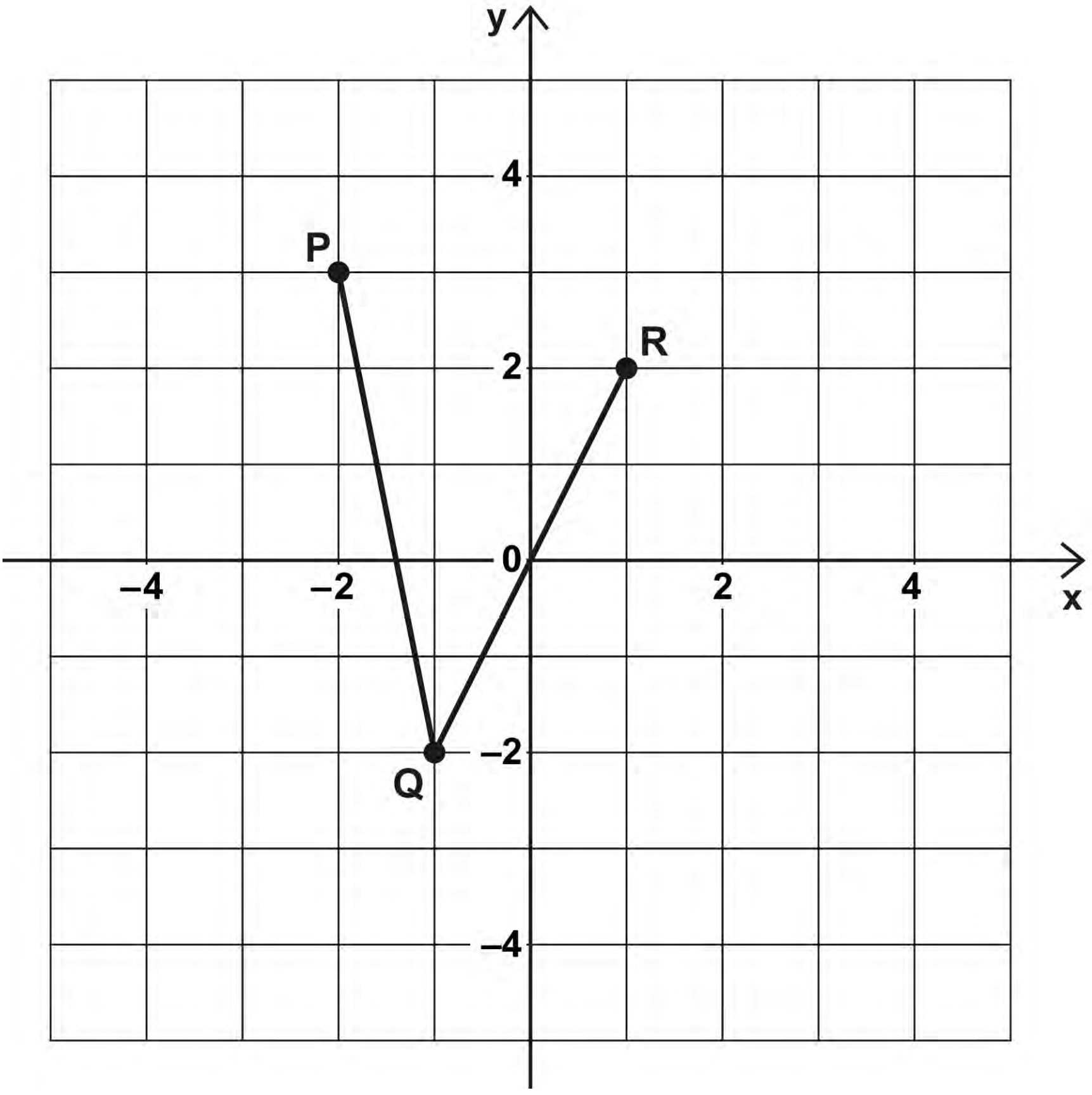
**Each circle represents 1 000 satellites.**

**Number of satellites in 2016**

**How many satellites were above the Earth in 2016?**

_____

**10. Look at the grid below.**




**Three points P Q and R are joined by two lines.**

**Lara plots another point S on the grid.**

**The coordinates of S are (–1, 2)**

**She joins the points to make a quadrilateral PQRS.**

**a)** **Mark point S on the grid.**

**b)** **Lara then translates the quadrilateral 4 squares to the right. Write the new coordinates of point P.**

**( _____ , _____ )**

**11. In this question, you may use the numbers more than once.**

**Look at the five numbers below.**

**2 3 4 5 6**

**Write the prime numbers from the list.**

**One has been done for you.**

**2**

**Write the factors of 12 from the list.**

**One has been done for you.**

**2**

**Write the factors of 15 from the list.**

**12.** **Amina's bed is 190 cm in length and 91 cm in width.**

**She is making a one-tenth scale model of the bed.**

**What are the length and width of Amina's model?**

**length = _____ cm**

**width = _____ cm**

**13.** **Kirsty says that when you double the size of an acute angle, you always get an obtuse angle.**

**Explain why Kirsty is not correct.**

**14. How many days are there in September, October and November altogether?**

_____ **days**

**15. The International Space Station orbits the Earth at a height of 250 miles.**

**What is the height of the International Space Station in kilometres?**

**Use 8 kilometres equals 5 miles.**

_____ **km**

16. Potatoes cost £1·50 per kg.

Carrots cost £1·80 per kg.

Jack buys $1\frac{1}{2}$ kg of potatoes and $\frac{1}{2}$ kg of carrots.

Work out how much change he gets from £5

Show your method.

£_____

17. $x + 2y = 20$

$x$ and $y$ are whole numbers less than $10$

What could $x$ and $y$ be?

$x =$ _____

$y =$ _____

**18. Look at the five fractions below.**

$\frac{1}{2}$

$\frac{2}{8}$

$\frac{3}{4}$

$\frac{7}{16}$

$\frac{24}{32}$

**Tick the fractions less than $\frac{5}{8}$**

**19. Layla makes jewellery to sell at a school fair.**

**Each bracelet has 53 beads.**

**She makes 68 bracelets.**

**Each necklace has 105 beads.**

**She makes 34 necklaces.**

**How many beads does Layla use altogether?**

**Show your method.**

**_____ beads**



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**20. Adam is making booklets.**

**Each booklet must have 34 sheets of paper.**

**He has 2 packets of paper.**

**There are 500 sheets of paper in each packet.**

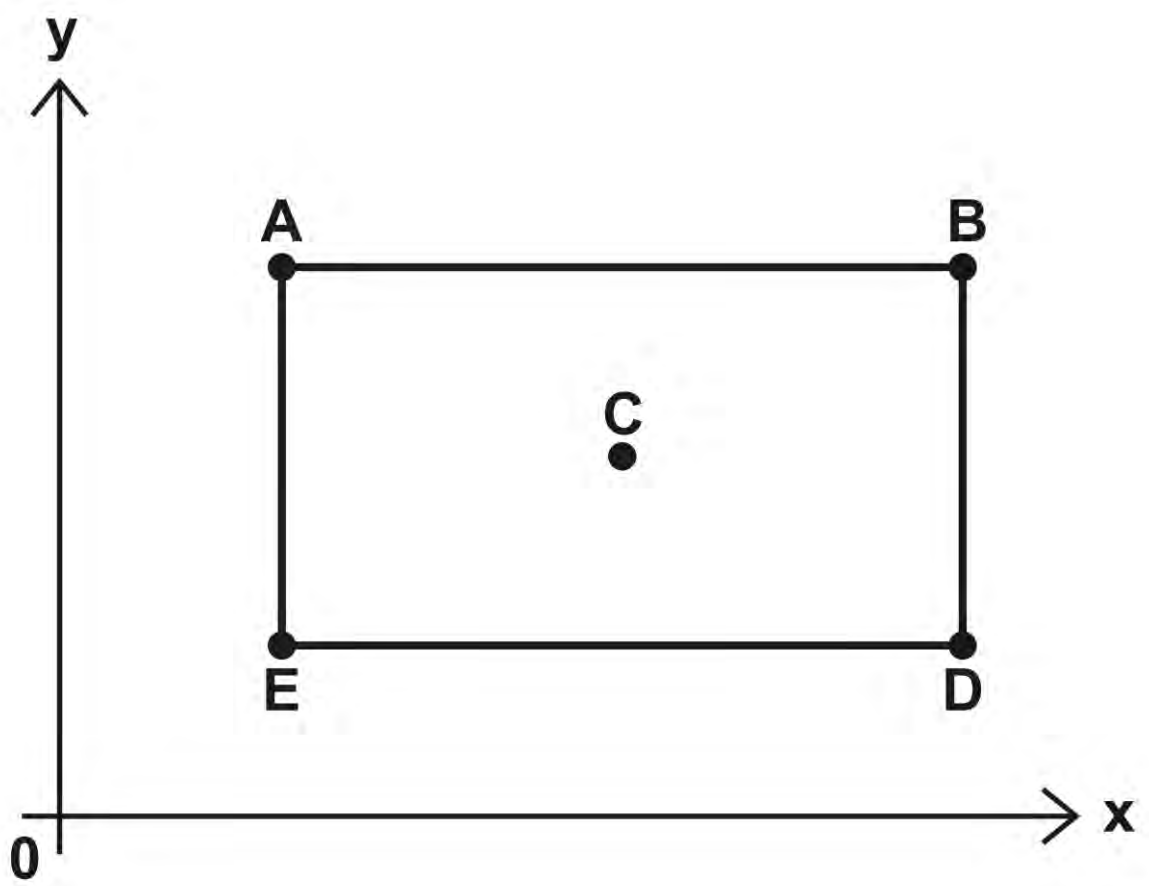
**How many complete booklets can Adam make from 2 packets of paper?**

**Show your method.**

**_____ booklets**

**21. Look at the diagram below.**

**It is not to scale.**




**ABDE is a rectangle on coordinate axes.**

**The sides of the rectangle are parallel to the axes.**

**The coordinates of A are (25, 30)**

**The coordinates of C are (40, 22)**

**Point C is the centre of the rectangle.**

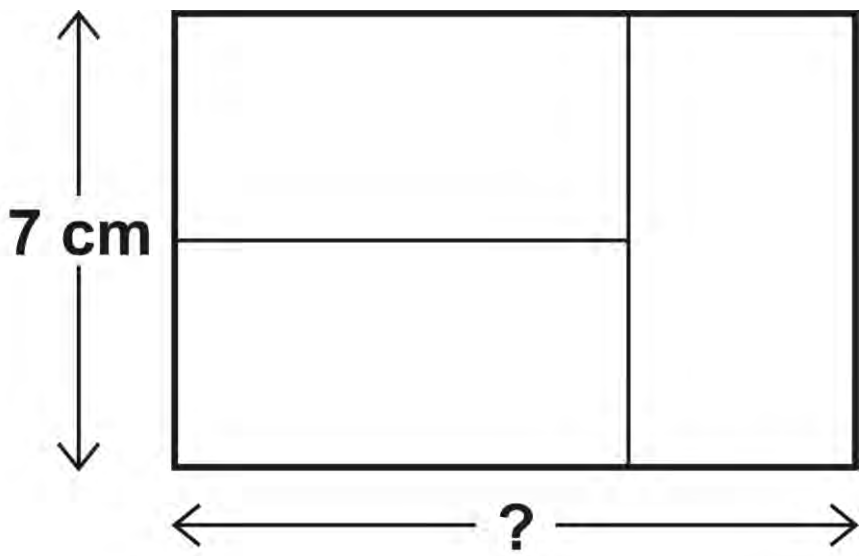
**Work out the coordinates of B and D.**

**B is (_____ ,_____ )**

**D is (_____ ,_____ )**

**22. Look at the diagram below.**

**It is not actual size.**




**Three identical rectangles are arranged to make a larger rectangle.**

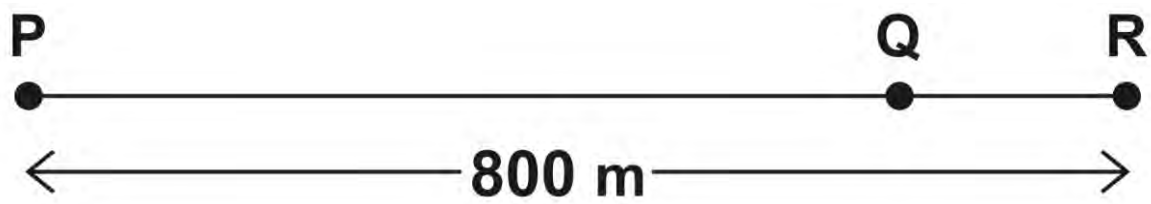
**The width of the larger rectangle is 7cm.**

**Calculate the length of the larger rectangle.**

**_____cm**

**23. Look at the diagram below.**

**It is not to scale.**




**The distance from point P to point R is 800 metres.**

**The distance from point P to point Q is 4 times the distance from point Q to point R.**

**Olivia says that it is 600 metres from point P to point Q.**

**Explain why Olivia is not correct.**

## END OF TEST

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Paper 3: reasoning
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