



THIRD SPACE  
LEARNING

# Place Value Year 6 SATs Question Pack

25 KS2 SATs Questions and  
Mark Scheme: Arithmetic  
and Reasoning



First name	
Last name	
Class	
Score	/ 25

## Instructions

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

## Questions and answers

- 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 the space around the question.
- Do not write over any barcodes.
- 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**.

## Marks

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

- 1 Write the number **three million, twenty five thousand and seventeen** in figures.

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1 mark

2 What is the value of the digit 7 in this number?

**370,423**

1 mark

3

Write this number in words:

**8,001,500**

1 mark

4

Write down the value of this Roman numeral:

**MMCDXV**

1 mark

5 **295,362** is partitioned (expanded).

Fill in the missing numbers:

$$\boxed{\phantom{00000}} + 90,000 + 5,000 + \boxed{\phantom{00000}} + 60 + 2 \quad \boxed{\phantom{00000}}$$

1 mark

6 What number is exactly 40,000 bigger than  
**1,120,107**?

1 mark



7 Write the number that is **300,000 less 8 million**

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1 mark

8

$403 \times 100 =$

1 mark

9

What is the value of the digit 3 in this number?

**405.123**

1 mark

10

**8902.55** is partitioned (expanded). Fill in the missing numbers

$$8,000 + 900 + \boxed{\phantom{000}} + \boxed{\phantom{000}} + \boxed{\phantom{000}} \quad \boxed{\phantom{000}}$$

1 mark

11

The population of a country is 7,350,361. If it increases by **800,000 over the next 5 years**, what will be the population in 5 years?

1 mark

12

How many times greater is the value of the digit 8 in **8,423,025** than the value of the digit 8 in **3,086,504**?

1 mark

13 Place these numbers in ascending order

101,111    1,011,101    100,999    110,001

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1 mark

- 14 Insert the symbol  $<$  or  $>$  in the missing space to make this statement correct

$$-27 \quad \boxed{\phantom{< \text{ or } >}} \quad -16$$

1 mark



- 15 Which number lies exactly halfway between **21,033** and **21,039**?

1 mark

16 Round **5,829,051** to the nearest 10,000

1 mark

- 17 How many times smaller is the value of the digit 2 in **578,209** than the value of the digit 2 in **256,414**?

1 mark

18 Circle two numbers that add together to **equal 0.45**

0.4   0.5   0.41   0.05

1 mark

19 Order these numbers in descending order

4.01    4.6    4.16    4.101

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1 mark

20

$$905 \div 1000$$

1 mark

21 Write the number that is **exactly 3 less** than ten million

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1 mark

- 22 Which number lies exactly halfway between **18.7** and **18.8**?

1 mark



23 What is the difference between **403.6** and **403.54**?

1 mark

24 Round **35.72** to the nearest one decimal place

1 mark

25 What number is exactly **0.005** greater than **423.096**?

1 mark

The instructions and principles of this mark scheme closely follow the guidance in the 2016 national curriculum tests. We have deliberately not set a limited time for the test paper as a teacher may want to vary it according to the standard individual children are working at.

The national curriculum test allows 40 minutes to complete this test.

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
1	3,025,017	1m		6N2	Number
2	70,000	1m	<b>Accept</b> 7 ten thousands or 70 thousands	5N3a	Number
3	Eight million, one thousand and five hundred	1m		6N2	Number
4	2,415	1m		5N3b	Number
5	200,000 and 300	1m	<b>Accept</b> numbers written in either order	5N3a	Number
6	1,160,107	1m		6N3	Number
7	7,700,000	1m		6N6	Number
8	40,300	1m		5C6b	Calculations
9	0.003 or 3 thousandths	1m		5F6b	Fractions
10	2 + 0.5 + 0.05	1m	<b>Accept</b> the three numbers written in any order	6F9a	Fractions
11	8,150,361	1m		6N6	Number
12	100 times bigger	1m	<b>Accept</b> 10 x 10 bigger	6N6	Number
13	100,999 101,111 110,001 1,011,101	1m		5N2	Number
14	<	1m	<b>Accept</b> 'Less than'	5N5	Number
15	21,036	1m		5N6	Number
16	5,830,000	1m		6N4	Number
17	1000 times smaller	1m	<b>Accept</b> 10 x 10 x 10 smaller	5N6	Number
18	Circled 0.4 and 0.05	1m		5F6a	Fractions

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Q	Required answer	Mark	Acceptable answer or additional guidance	Content Domain Ref	NC strand
19	4.6 4.16 4.101 4.01	1m		5F8	Fractions
20	0.905	1m		6F9a	Fractions
21	9,999,997	1m		6N6	Number
22	18.75	1m		5F10	Fractions
23	0.06	1m		5F8	Fractions
24	35.7	1m		5F7	Fractions
25	423.101	1m		5F10	Fractions

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  - Boost confidence
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