

# Year 6 Place Value Practice Test

**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.

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:

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

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**

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

$$8,000 + 900 + \boxed{\phantom{000000}} + \boxed{\phantom{000000}} + \boxed{\phantom{000000}} \quad \boxed{\phantom{000000}}$$

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

$$-27 \quad \boxed{\phantom{000}} \quad -16$$

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

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<br>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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|----|---------------------|------|------------------------------------------|--------------------|-----------|
| 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 |