1.2 Place Value, Negative Numbers and Roman Numerals: 1-hour Pack

NCETM National Curriculum (2014) Mathematics - KS2 Number: Place Value, Negative Numbers, Roman Numerals · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 What is the value of the digit 9 in 4,195?

Answer: ___

(1)

---

2 Find the missing number in this sequence.

213, 203, ___, 183, 173, 163

Answer: ___

(1)

---

3 Write the Roman numeral DCLXXXV as a number.

Answer: ___

(1)

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4 Write <, > or = in the box.

73,209 [ ] 72,796

Answer: ___

(1)

---

5 Complete the partition.

5,187 = 5,000 + ___ + 80 + 7

Answer: ___

(1)

---

6 What is the value of the digit 2 in 892,053?

Answer: ___

(1)

---

7 Complete the partition.

998,369 = 900,000 + 90,000 + 8,000 + ___ + 60 + 9

Answer: ___

(1)

---

8 What is 10 less than 507,469?

Answer: ___

(1)

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9 Write 811,700 in words.

Answer: ___

(1)

---

10 Write <, > or = in the box.

4,044 [ ] 4,091

Answer: ___

(1)

---

11 Here is a number sequence that decreases by the same amount each time: 17, 11, 5, ___, ___, ___. Find the next three terms.

(3)

---

12 The temperature at 4 pm is 4 degrees. By midnight it has fallen by 19 degrees.

What is the temperature at midnight?

Answer: ___ degrees

(2)

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13 Write these numbers in order, starting with the largest.

732,339, 673,991, 699,171, 702,430

Answer: ___

(1)

---

14 Write 952,357 in words.

Answer: ___

(1)

---

15 Find the missing number in this sequence.

935, 885, 835, ___, 735, 685

Answer: ___

(1)

---

16 Write <, > or = in the box.

2,600 [ ] 2,914

Answer: ___

(1)

---

17 Write 607,592 in words.

Answer: ___

(1)

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18 Write these numbers in order, starting with the smallest.

313,125, 312,631, 334,292, 296,072

Answer: ___

(1)

---

19 Use each of the digits 1, 3, 2, 5 once to make the smallest possible 4-digit number.

Answer: ___

(1)

---

20 On Monday the temperature was -6 degrees. On Tuesday it was 10 degrees.

What is the difference between the two temperatures?

Answer: ___ degrees

(2)

---

21 Write these numbers in order, starting with the smallest.

-2, -6, 3, -9, 8

Answer: ___

(1)

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22 Write these numbers in order, starting with the smallest.

736,812, 708,064, 685,811, 745,241

Answer: ___

(1)

---

23 Write these numbers in order, starting with the smallest.

937,866, 900,656, 902,986, 891,352

Answer: ___

(1)

---

24 Estimate 8,243 - 4,197 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

25 Write the Roman numeral DLIV as a number.

Answer: ___

(1)

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26 Find the missing number in this sequence.

383, 378, ___, 368, 363, 358

Answer: ___

(1)

---

27 Write <, > or = in the box.

56,323 [ ] 56,323

Answer: ___

(1)

---

28 Write these numbers in order, starting with the largest.

920,785, 909,867, 955,575, 956,473

Answer: ___

(1)

---

29 What is the value of the digit 4 in 4,376?

Answer: ___

(1)

---

30 What is the value of the digit 2 in 682,439?

Answer: ___

(1)

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31 Use each of the digits 1, 5, 2, 8 once to make the smallest possible 4-digit number.

Answer: ___

(2)

---

32 Write 4,509,632 as the sum of its place value parts (expanded form).

(3)

---

33 Round 558,213 to the nearest ten.

Answer: ___

(1)

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34 33.3 x 100 =

Answer: ___

(1)

---

35 Answer these questions about temperature.

(a) At 6am the temperature was -7°C. By noon it had risen by 12°C. What was the temperature at noon? **(2)**

.....

(b) At midnight the temperature was -3°C. It then fell by 6°C. What was the new temperature? **(2)**

.....

(c) The temperature in Leeds was -4°C and in Truro was 9°C. What is the difference between the two temperatures? **(2)**

.....

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Mark scheme · 1.2 Place Value, Negative Numbers and Roman Numerals: 1-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

90 cao — **B1**

Answer: **90**

Question 2

193 cao — **B1**

Answer: **193**

Question 3

685 cao — **B1**

Answer: **685**

Question 4

> cao — **B1**

Answer: **>**

Question 5

100 cao — **B1**

Answer: **100**

Question 6

2,000 cao — **B1**

Answer: **2,000**

Question 7

300 cao — **B1**

Answer: **300**

Question 8

507,459 cao — **B1**

Answer: **507,459**

Question 9

eight hundred and eleven thousand seven hundred cao — **B1**

Answer: **eight hundred and eleven thousand seven hundred**

Question 10

< cao — **B1**

Answer: **<**

Question 11

identifies the term-to-term rule as subtract 6 oe — **B1**

-1 and -7 correct — **B1**

-13 correct — **B1**

Answer: **-1, -7, -13**

Question 12

subtracts the fall from the start — **M1**

-15 degrees cao — **A1**

Answer: **-15 degrees**

Question 13

732,339, 702,430, 699,171, 673,991 cao — **B1**

Answer: **732,339, 702,430, 699,171, 673,991**

Question 14

nine hundred and fifty-two thousand three hundred and fifty-seven cao — **B1**

Answer: **nine hundred and fifty-two thousand three hundred and fifty-seven**

Question 15

785 cao — **B1**

Answer: **785**

Question 16

< cao — **B1**

Answer: **<**

Question 17

six hundred and seven thousand five hundred and ninety-two cao — **B1**

Answer: **six hundred and seven thousand five hundred and ninety-two**

Question 18

296,072, 312,631, 313,125, 334,292 cao — **B1**

Answer: **296,072, 312,631, 313,125, 334,292**

Question 19

1,235 cao — **B1**

Answer: **1,235**

Question 20

counts across zero — **M1**

16 degrees cao — **A1**

Answer: **16 degrees**

Question 21

-9, -6, -2, 3, 8 cao — **B1**

Answer: **-9, -6, -2, 3, 8**

Question 22

685,811, 708,064, 736,812, 745,241 cao — **B1**

Answer: **685,811, 708,064, 736,812, 745,241**

Question 23

891,352, 900,656, 902,986, 937,866 cao — **B1**

Answer: **891,352, 900,656, 902,986, 937,866**

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Question 24

8,000 and 4,000 seen **M1**

4,000 cao **A1**

Answer: **4,000**

Question 25

554 cao **B1**

Answer: **554**

Question 26

373 cao **B1**

Answer: **373**

Question 27

= cao **B1**

Answer: **=**

Question 28

956,473, 955,575, 920,785, 909,867 cao **B1**

Answer: **956,473, 955,575, 920,785, 909,867**

Question 29

4,000 cao **B1**

Answer: **4,000**

Question 30

2,000 cao **B1**

Answer: **2,000**

Question 31

digits placed in value order **M1**

1,258 cao **A1**

Answer: **1,258**

Question 32

4,000,000 + 500,000 correctly identified **B1**

9,000 + 600 correctly identified **B1**

30 + 2 correctly identified (ten-thousands digit correctly treated as 0) **B1**

Answer: **4,000,000 + 500,000 + 9,000 + 600 + 30 + 2**

Question 33

558,210 cao **B1**

Answer: **558,210**

Question 34

3,330 cao **B1**

Answer: **3,330**

Question 35

(a) counts on from -7 through 0, e.g. on a number line, or -7 + 12 oe **M1**

(a) 5°C cao **A1**

(a) Answer: **5°C**

(b) counts back from -3 by 6, or -3 - 6 oe **M1**

(b) -9°C cao **A1**

(b) Answer: **-9°C**

(c) 9 - (-4) oe, or counts the gap across zero on a number line **M1**

(c) 13°C cao **A1**

(c) Answer: **13°C**

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