1.2 Place Value, Negative Numbers and Roman Numerals: 2-hour Pack

NCETM National Curriculum (2014) Mathematics - KS2 Number: Place Value, Negative Numbers, Roman Numerals · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 46 divided by ___ = 0.46

Answer: ___

(1)

---

2 A number line starts at 10,000 and goes up in equal steps of 10,000. An arrow points to the 1st mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

3 A lift starts at floor -3 (the second basement level). It travels up 8 floors to make its first stop, then travels down 5 floors to make its second stop.

(a) What floor is the lift at after the first stop? **(2)**

.....

(b) What floor is the lift at after the second stop? **(2)**

.....

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4 22 divided by ___ = 0.22

Answer: ___

(1)

---

5 Use each of the digits 4, 2, 9, 8 once to make the largest possible 4-digit number.

Answer: ___

(1)

---

6 Estimate 7,956 + 9,211 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

7 Write <, > or = in the box.

40,519 [ ] 40,105

Answer: ___

(1)

---

8 Estimate 2,301 + 7,672 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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9 Find the missing number in this sequence.

865, 875, ___, 895, 905, 915

Answer: ___

(1)

---

10 What is the value of the digit 4 in 532,479?

Answer: ___

(1)

---

11 Estimate 5,077 - 4,383 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

12 6,612 divided by 10 =

Answer: ___

(1)

---

13 Estimate 2,610 - 2,153 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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14 93.15 x 1,000 =

Answer: ___

(1)

---

15 Find the missing number in this sequence.

4,964, 5,964, 6,964, 7,964, 8,964, ___

Answer: ___

(1)

---

16 What is 100 less than 621,811?

Answer: ___

(1)

---

17 What is 1,000 more than 270,490?

Answer: ___

(1)

---

18 What is the value of the digit 2 in 243,016?

Answer: ___

(1)

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19 30 x ___ = 300

Answer: ___

(1)

---

20 What number is exactly halfway between -6 and 6?

Answer: ___

(1)

---

21 Find the missing number in this sequence.

4,311, 3,811, ___, 2,811, 2,311, 1,811

Answer: ___

(1)

---

22 Write the Roman numeral DCCCLXXIV as a number.

Answer: ___

(1)

---

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

469,201, 467,553, 442,916, 457,852

Answer: ___

(1)

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24 What is 1,000 less than 752,832?

Answer: ___

(1)

---

25 Round 9,296 to the nearest hundred.

Answer: ___

(1)

---

26 Write the number six hundred and eighty-eight thousand seven hundred in digits.

Answer: ___

(1)

---

27 A date on a monument is written MCDXXXV. What year is that?

Answer: ___

(1)

---

28 Write 317 as a Roman numeral.

Answer: ___

(1)

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29 Estimate 9,270 - 5,564 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

30 Find the missing number in this sequence.

931, 881, 831, 781, ___, 681

Answer: ___

(1)

---

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

196,398, 204,258, 197,821, 190,538

Answer: ___

(1)

---

32 What is 100 more than 364,721?

Answer: ___

(1)

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33 Find the missing number in this sequence.

195, 188, 181, 174, ___, 160

Answer: ___

(1)

---

34 Complete the partition.

232,974 = 200,000 + 30,000 + 2,000 + 900 + ___ + 4

Answer: ___

(1)

---

35 93.64 divided by 1,000 =

Answer: ___

(1)

---

36 Round 8,808 to the nearest ten.

Answer: ___

(1)

---

37 Round 802,879 to the nearest thousand.

Answer: ___

(1)

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38 3,482,650 sensors are counted at a factory. Round this number as instructed.

(a) Round 3,482,650 to the nearest 100,000. **(1)**

(b) Round 3,482,650 to the nearest 10,000. **(1)**

---

39 Find the missing number in this sequence.

115, 165, 215, 265, 315, ___

Answer: ___

(1)

---

40 What is 10 more than 322,864?

Answer: ___

(1)

---

41 What is 10,000 less than 819,008?

Answer: ___

(1)

---

42 81 x ___ = 810

Answer: ___

(1)

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43 What is 100 more than 321,170?

Answer: ___

(1)

---

44 What is 10,000 more than 999,636?

Answer: ___

(1)

---

45 What is 12 less than 0?

Answer: ___

(1)

---

46 Complete the partition.

3,031 = 3,000 + 30 + ___

Answer: ___

(1)

---

47 Find the missing number in this sequence.

438, 388, 338, 288, ___, 188

Answer: ___

(1)

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48 What is 1,000 more than 331,642?

Answer: ___

(1)

---

49 What is 100 more than 568,010?

Answer: ___

(1)

---

50 The temperature in Oslo at 6 am is -1 degrees. By noon it has risen by 4 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

---

51 Write <, > or = in the box.

24,407 [ ] 24,407

Answer: ___

(1)

---

52 Estimate 4,000 + 4,525 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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53 Round 455,917 to the nearest thousand.

Answer: ___

(1)

---

54 Use each of the digits 6, 5, 3, 4 once to make the largest possible 4-digit number.

Answer: ___

(2)

---

55 Complete the partition.

4,003 = 4,000 + ___

Answer: ___

(1)

---

56 A number line starts at 3,000 and goes up in equal steps of 1,000. An arrow points to the 7th mark after the start.

What number does the arrow show?

Answer: ___

(1)

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

281,548, 255,220, 269,818, 259,545

Answer: ___

(1)

---

58 Convert between Roman numerals and Arabic (standard) numbers.

(a) Write 87 as a Roman numeral. **(1)**

(b) Write 149 as a Roman numeral. **(1)**

(c) What number does CDXL represent? **(1)**

(d) What number does DCCXCIV represent? **(1)**

---

59 Round 8,077 to the nearest ten.

Answer: ___

(1)

---

60 561.5 divided by 1,000 =

Answer: ___

(1)

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61 Write 380,902 in words.

Answer: ___

(1)

---

62 Write the number three hundred and fourteen thousand six hundred in digits.

Answer: ___

(1)

---

63 Complete the partition.

9,252 = 9,000 + 200 + ___ + 2

Answer: ___

(1)

---

64 What is 10 less than 206,734?

Answer: ___

(1)

---

65 98 divided by ___ = 0.098

Answer: ___

(1)

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66 44 divided by ___ = 4.4

Answer: ___

(1)

---

67 The temperature at 4 pm is 4 degrees. By midnight it has fallen by 17 degrees.

What is the temperature at midnight?

Answer: ___ degrees

(2)

---

68 Use each of the digits 4, 3, 7, 8 once to make the largest possible 4-digit number.

Answer: ___

(2)

---

69 Find the missing number in this sequence.

954, 951, 948, ___, 942, 939

Answer: ___

(1)

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70 Find the missing number in this sequence.

2,683, 2,783, 2,883, 2,983, ___, 3,183

Answer: ___

(1)

---

71 What is 10,000 less than 717,855?

Answer: ___

(1)

---

72 Find the missing number in this sequence.

9,165, 9,265, ___, 9,465, 9,565, 9,665

Answer: ___

(1)

---

73 Use each of the digits 3, 6, 1, 2 once to make the smallest possible 4-digit number.

Answer: ___

(2)

---

74 Round 856,898 to the nearest hundred.

Answer: ___

(1)

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75 38.02 x 10 =

Answer: ___

(1)

---

76 Complete the partition.

8,676 = 8,000 + 600 + ___ + 6

Answer: ___

(1)

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Mark scheme · 1.2 Place Value, Negative Numbers and Roman Numerals: 2-hour Pack

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

Question 1

100 cao — **B1**

Answer: **100**

Question 2

20,000 cao — **B1**

Answer: **20,000**

Question 3

(a) -3 + 8 oe — **M1**

(a) floor 5 cao — **A1**

(a) Answer: **Floor 5**

(b) ft their answer to (a) - 5, or 5 - 5 oe — **M1**

(b) floor 0 (ground floor) cao — **A1**

(b) Answer: **Floor 0 (ground floor)**

Question 4

100 cao — **B1**

Answer: **100**

Question 5

9,842 cao — **B1**

Answer: **9,842**

Question 6

8,000 and 9,000 seen — **M1**

17,000 cao — **A1**

Answer: **17,000**

Question 7

> cao — **B1**

Answer: **>**

Question 8

2,000 and 8,000 seen — **M1**

10,000 cao — **A1**

Answer: **10,000**

Question 9

885 cao — **B1**

Answer: **885**

Question 10

400 cao — **B1**

Answer: **400**

Question 11

5,000 and 4,000 seen — **M1**

1,000 cao — **A1**

Answer: **1,000**

Question 12

661.2 cao — **B1**

Answer: **661.2**

Question 13

3,000 and 2,000 seen — **M1**

1,000 cao — **A1**

Answer: **1,000**

Question 14

93,150 cao — **B1**

Answer: **93,150**

Question 15

9,964 cao — **B1**

Answer: **9,964**

Question 16

621,711 cao — **B1**

Answer: **621,711**

Question 17

271,490 cao — **B1**

Answer: **271,490**

Question 18

200,000 cao — **B1**

Answer: **200,000**

Question 19

10 cao — **B1**

Answer: **10**

Question 20

0 cao — **B1**

Answer: **0**

Question 21

3,311 cao — **B1**

Answer: **3,311**

Question 22

874 cao — **B1**

Answer: **874**

Question 23

469,201, 467,553, 457,852, 442,916 cao — **B1**

Answer: **469,201, 467,553, 457,852, 442,916**

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Question 24

751,832 cao **B1**

Answer: **751,832**

Question 25

9,300 cao **B1**

Answer: **9,300**

Question 26

688,700 cao **B1**

Answer: **688,700**

Question 27

1435 cao **B1**

Answer: **1435**

Question 28

CCCXVII cao **B1**

Answer: **CCCXVII**

Question 29

9,000 and 6,000 seen **M1**

3,000 cao **A1**

Answer: **3,000**

Question 30

731 cao **B1**

Answer: **731**

Question 31

204,258, 197,821, 196,398, 190,538 cao **B1**

Answer: **204,258, 197,821, 196,398, 190,538**

Question 32

364,821 cao **B1**

Answer: **364,821**

Question 33

167 cao **B1**

Answer: **167**

Question 34

70 cao **B1**

Answer: **70**

Question 35

0.09364 cao **B1**

Answer: **0.09364**

Question 36

8,810 cao **B1**

Answer: **8,810**

Question 37

803,000 cao **B1**

Answer: **803,000**

Question 38

(a) 3,500,000 cao **B1**

(a) Answer: **3,500,000**

(b) 3,480,000 cao **B1**

(b) Answer: **3,480,000**

Question 39

365 cao **B1**

Answer: **365**

Question 40

322,874 cao **B1**

Answer: **322,874**

Question 41

809,008 cao **B1**

Answer: **809,008**

Question 42

10 cao **B1**

Answer: **10**

Question 43

321,270 cao **B1**

Answer: **321,270**

Question 44

1,009,636 cao **B1**

Answer: **1,009,636**

Question 45

-12 cao **B1**

Answer: **-12**

Question 46

1 cao **B1**

Answer: **1**

Question 47

238 cao **B1**

Answer: **238**

Question 48

332,642 cao **B1**

Answer: **332,642**

Question 49

568,110 cao **B1**

Answer: **568,110**

Question 50

adds the rise to the negative start **M1**

3 degrees cao **A1**

Answer: **3 degrees**

Question 51

= cao **B1**

Answer: **=**

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Question 52

4,000 and 5,000 seen — M1
9,000 cao — A1
Answer: **9,000**

Question 53

456,000 cao — B1
Answer: **456,000**

Question 54

digits placed in value order — M1
6,543 cao — A1
Answer: **6,543**

Question 55

3 cao — B1
Answer: **3**

Question 56

10,000 cao — B1
Answer: **10,000**

Question 57

281,548, 269,818, 259,545, 255,220 cao — B1
Answer: **281,548, 269,818, 259,545, 255,220**

Question 58

(a) LXXXVII cao — B1
(a) Answer: **LXXXVII**
(b) CXLIX cao — B1
(b) Answer: **CXLIX**
(c) 440 cao — B1
(c) Answer: **440**
(d) 794 cao — B1
(d) Answer: **794**

Question 59

8,080 cao — B1
Answer: **8,080**

Question 60

0.5615 cao — B1
Answer: **0.5615**

Question 61

three hundred and eighty thousand nine hundred and two cao — B1
Answer: **three hundred and eighty thousand nine hundred and two**

Question 62

314,600 cao — B1
Answer: **314,600**

Question 63

50 cao — B1
Answer: **50**

Question 64

206,724 cao — B1
Answer: **206,724**

Question 65

1,000 cao — B1
Answer: **1,000**

Question 66

10 cao — B1
Answer: **10**

Question 67

subtracts the fall from the start — M1
-13 degrees cao — A1
Answer: **-13 degrees**

Question 68

digits placed in value order — M1
8,743 cao — A1
Answer: **8,743**

Question 69

945 cao — B1
Answer: **945**

Question 70

3,083 cao — B1
Answer: **3,083**

Question 71

707,855 cao — B1
Answer: **707,855**

Question 72

9,365 cao — B1
Answer: **9,365**

Question 73

digits placed in value order — M1
1,236 cao — A1
Answer: **1,236**

Question 74

856,900 cao — B1
Answer: **856,900**

Question 75

380.2 cao — B1
Answer: **380.2**

Question 76

70 cao — B1
Answer: **70**

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