1.1 Reasoning: Number and Place Value: 2-hour Pack

STA KS2 National Curriculum Mathematics - STA Reasoning Test Framework · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The temperature in Reykjavik at 6 am is -11 degrees. By noon it has risen by 5 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

---

2 What is the value of the digit 1 in 153,879?

Answer: ___

(1)

---

3 What is 1,000 more than 762,438?

Answer: ___

(1)

---

4 Round 474,901 to the nearest hundred.

Answer: ___

(1)

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5 Round 177,039 to the nearest thousand.

Answer: ___

(1)

---

6 What is the value of the digit 5 in 543,916?

Answer: ___

(1)

---

7 Estimate 1,020 - 1,002 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

8 Write the Roman numeral CLXXIII as a number.

Answer: ___

(1)

---

9 Write <, > or = in the box.

34,186 [ ] 34,186

Answer: ___

(1)

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10 Round 585,707 to the nearest hundred.

Answer: ___

(1)

---

11 What is the value of the digit 8 in 301,458?

Answer: ___

(1)

---

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

-5, -2, -3, 6, 7

Answer: ___

(1)

---

13 What is the value of the digit 9 in 954,130?

Answer: ___

(1)

---

14 Find the missing number in this sequence.

3,407, 3,507, ___, 3,707, 3,807, 3,907

Answer: ___

(1)

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15 Complete the partition.

995,393 = 900,000 + 90,000 + 5,000 + ___ + 90 + 3

Answer: ___

(1)

---

16 Write the Roman numeral CXVI as a number.

Answer: ___

(1)

---

17 A number line starts at 150 and goes up in equal steps of 50. An arrow points to the 8th mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

18 Write 496,971 in words.

Answer: ___

(1)

---

19 Round 609,992 to the nearest thousand.

Answer: ___

(1)

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20 A number line starts at 500,000 and goes up in equal steps of 100,000. An arrow points to the 9th mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

21 Write the number nine hundred and twenty-two thousand eight hundred and three in digits.

Answer: ___

(1)

---

22 Find the missing number in this sequence.

8,740, 7,740, 6,740, ___, 4,740, 3,740

Answer: ___

(1)

---

23 Write the Roman numeral CCXLV as a number.

Answer: ___

(1)

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

945,907, 974,554, 968,892, 951,163

Answer: ___

(1)

---

25 Round 852,827 to the nearest ten.

Answer: ___

(1)

---

26 What is the value of the digit 9 in 948,072?

Answer: ___

(1)

---

27 What is the value of the digit 9 in 703,598?

Answer: ___

(1)

---

28 Tom has 3,789 stickers. Tom is given 4,275 more and then gives away 7,487.

How many stickers does Tom have now?

Answer: ___

(2)

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29 Round 814,438 to the nearest ten.

Answer: ___

(1)

---

30 Estimate 9,539 - 7,578 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

31 Write the Roman numeral DCCCLXXXIII as a number.

Answer: ___

(1)

---

32 I am thinking of a 3-digit number. Here are some clues.

Clue 1: It has an even ones digit.
Clue 2: It has a digit sum of 19.
Clue 3: It has hundreds digit 2.

What is my number?

Answer: ___

(3)

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33 Write the Roman numeral CDXLII as a number.

Answer: ___

(1)

---

34 Write the Roman numeral CXCI as a number.

Answer: ___

(1)

---

35 Willow has 4,017 stickers. Willow puts 1,637 aside and shares the rest equally between 5 friends.

How many stickers does each friend get?

Answer: ___

(2)

---

36 Find the missing number in this sequence.

6,101, 6,351, ___, 6,851, 7,101, 7,351

Answer: ___

(1)

---

37 Write the Roman numeral DCLVII as a number.

Answer: ___

(1)

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38 Complete the partition.

866,022 = 800,000 + 60,000 + 6,000 + ___ + 2

Answer: ___

(1)

---

39 Write <, > or = in the box.

35,087 [ ] 35,555

Answer: ___

(1)

---

40 A number line starts at 40 and goes up in equal steps of 10. An arrow points to the 5th mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

41 Estimate 5,548 + 5,985 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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42 The sum of 5 consecutive even numbers is 90.

What is the smallest of the 5 numbers?

Answer: ___

(2)

---

43 Find the missing number in this sequence.

877, 902, 927, ___, 977, 1,002

Answer: ___

(1)

---

44 The temperature in Oslo at 6 am is -9 degrees. By noon it has risen by 12 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

---

45 Write these numbers in order, starting with the smallest: 6,204 2,604 6,024 2,046

(2)

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46 What is 1,000 more than 870,428?

Answer: ___

(1)

---

47 On Monday the temperature was -13 degrees. On Tuesday it was 7 degrees.

What is the difference between the two temperatures?

Answer: ___ degrees

(2)

---

48 A number line starts at 100,000 and goes up in equal steps of 100,000. An arrow points to the 6th mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

49 Chloe has 8,215 stickers. Chloe puts 3,652 aside and shares the rest equally between 9 friends.

How many stickers does each friend get?

Answer: ___

(2)

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50 Complete the partition.

130,249 = 100,000 + ___ + 200 + 40 + 9

Answer: ___

(1)

---

51 Write 289 as a Roman numeral.

Answer: ___

(1)

---

52 Round 902,150 to the nearest hundred.

Answer: ___

(1)

---

53 Complete the partition.

278,225 = 200,000 + 70,000 + ___ + 200 + 20 + 5

Answer: ___

(1)

---

54 Write the number two hundred and forty thousand two hundred and ninety-two in digits.

Answer: ___

(1)

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55 Write the Roman numeral DXXXVIII as a number.

Answer: ___

(1)

---

56 Write the Roman numeral DCC as a number.

Answer: ___

(1)

---

57 Write <, > or = in the box.

94,275 [ ] 94,413

Answer: ___

(1)

---

58 Hana has 7 boxes with 889 coins in each box and 6,191 loose coins.

How many coins does Hana have altogether?

Answer: ___

(2)

---

59 Write the Roman numeral DCXXVIII as a number.

Answer: ___

(1)

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60 Write 289,955 in words.

Answer: ___

(1)

---

61 Estimate 9,682 - 3,885 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

---

62 Write 108,309 in words.

Answer: ___

(1)

---

63 Find the missing number in this sequence.

7,447, 7,947, ___, 8,947, 9,447, 9,947

Answer: ___

(1)

---

64 Complete the partition.

925,573 = ___ + 20,000 + 5,000 + 500 + 70 + 3

Answer: ___

(1)

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65 A number line starts at 30,000 and goes up in equal steps of 10,000. An arrow points to the 8th mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

66 Write <, > or = in the box.

17,199 [ ] 16,968

Answer: ___

(1)

---

67 What is the value of the digit 3 in 794,315?

Answer: ___

(1)

---

68 What is 10 less than 417,530?

Answer: ___

(1)

---

69 Write the number nine hundred and twenty thousand two hundred and twenty-eight in digits.

Answer: ___

(1)

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70 What is 10 more than 636,031?

Answer: ___

(1)

---

71 Roman numerals.

(a) Write 47 as a Roman numeral. **(1)**

(b) Write the Roman numeral LXIV as a number. **(1)**

---

72 What number is exactly halfway between -7 and 7?

Answer: ___

(1)

---

73 Find the missing number in this sequence.

427, 447, 467, 487, ___, 527

Answer: ___

(1)

---

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

399,489, 415,441, 410,172, 385,212

Answer: ___

(1)

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75 Write the number one hundred thousand one hundred and forty-one in digits.

Answer: ___

(1)

---

76 A number line starts at 5,000 and goes up in equal steps of 5,000. An arrow points to the 1st mark after the start.

What number does the arrow show?

Answer: ___

(1)

---

77 Complete the partition.

199,374 = 100,000 + 90,000 + 9,000 + ___ + 70 + 4

Answer: ___

(1)

---

78 Write 175 as a Roman numeral.

Answer: ___

(1)

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Mark scheme · 1.1 Reasoning: Number and Place Value: 2-hour Pack

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

Question 1

adds the rise to the negative start — M1
-6 degrees cao — A1
Answer: **-6 degrees**

Question 2

100,000 cao — B1
Answer: **100,000**

Question 3

763,438 cao — B1
Answer: **763,438**

Question 4

474,900 cao — B1
Answer: **474,900**

Question 5

177,000 cao — B1
Answer: **177,000**

Question 6

500,000 cao — B1
Answer: **500,000**

Question 7

1,000 and 1,000 seen — M1
0 cao — A1
Answer: **0**

Question 8

173 cao — B1
Answer: **173**

Question 9

= cao — B1
Answer: **=**

Question 10

585,700 cao — B1
Answer: **585,700**

Question 11

8 cao — B1
Answer: **8**

Question 12

-5, -3, -2, 6, 7 cao — B1
Answer: **-5, -3, -2, 6, 7**

Question 13

900,000 cao — B1
Answer: **900,000**

Question 14

3,607 cao — B1
Answer: **3,607**

Question 15

300 cao — B1
Answer: **300**

Question 16

116 cao — B1
Answer: **116**

Question 17

550 cao — B1
Answer: **550**

Question 18

four hundred and ninety-six thousand nine hundred and seventy-one cao — B1
Answer: **four hundred and ninety-six thousand nine hundred and seventy-one**

Question 19

610,000 cao — B1
Answer: **610,000**

Question 20

1,400,000 cao — B1
Answer: **1,400,000**

Question 21

922,803 cao — B1
Answer: **922,803**

Question 22

5,740 cao — B1
Answer: **5,740**

Question 23

245 cao — B1
Answer: **245**

Question 24

974,554, 968,892, 951,163, 945,907 cao — B1
Answer: **974,554, 968,892, 951,163, 945,907**

Question 25

852,830 cao — B1
Answer: **852,830**

Question 26

900,000 cao — B1
Answer: **900,000**

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Question 27

90 cao — **B1**

Answer: **90**

Question 28

8,064 seen — **M1**

577 cao — **A1**

Answer: **577**

Question 29

814,440 cao — **B1**

Answer: **814,440**

Question 30

10,000 and 8,000 seen — **M1**

2,000 cao — **A1**

Answer: **2,000**

Question 31

883 cao — **B1**

Answer: **883**

Question 32

uses at least two conditions to cut down the list — **M1**

tests candidates against all conditions — **M1**

298 cao — **A1**

Answer: **298**

Question 33

442 cao — **B1**

Answer: **442**

Question 34

191 cao — **B1**

Answer: **191**

Question 35

2,380 seen — **M1**

476 cao — **A1**

Answer: **476**

Question 36

6,601 cao — **B1**

Answer: **6,601**

Question 37

657 cao — **B1**

Answer: **657**

Question 38

20 cao — **B1**

Answer: **20**

Question 39

< cao — **B1**

Answer: **<**

Question 40

90 cao — **B1**

Answer: **90**

Question 41

6,000 and 6,000 seen — **M1**

12,000 cao — **A1**

Answer: **12,000**

Question 42

uses the mean or tests numbers — **M1**

14 cao — **A1**

Answer: **14**

Question 43

952 cao — **B1**

Answer: **952**

Question 44

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

3 degrees cao — **A1**

Answer: **3 degrees**

Question 45

at least two numbers placed in correct relative order — **M1**

2,046 2,604 6,024 6,204 cao, all four in correct order — **A1**

Answer: **2,046 2,604 6,024 6,204**

Question 46

871,428 cao — **B1**

Answer: **871,428**

Question 47

counts across zero — **M1**

20 degrees cao — **A1**

Answer: **20 degrees**

Question 48

700,000 cao — **B1**

Answer: **700,000**

Question 49

4,563 seen — **M1**

507 cao — **A1**

Answer: **507**

Question 50

30,000 cao — **B1**

Answer: **30,000**

Question 51

CCLXXXIX cao — **B1**

Answer: **CCLXXXIX**

Question 52

902,200 cao — **B1**

Answer: **902,200**

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Question 53

8,000 cao **B1**

Answer: **8,000**

Question 54

240,292 cao **B1**

Answer: **240,292**

Question 55

538 cao **B1**

Answer: **538**

Question 56

700 cao **B1**

Answer: **700**

Question 57

< cao **B1**

Answer: **<**

Question 58

7 x 889 = 6,223 seen **M1**

12,414 cao **A1**

Answer: **12,414**

Question 59

628 cao **B1**

Answer: **628**

Question 60

two hundred and eighty-nine thousand nine hundred and fifty-five cao **B1**

Answer: **two hundred and eighty-nine thousand nine hundred and fifty-five**

Question 61

10,000 and 4,000 seen **M1**

6,000 cao **A1**

Answer: **6,000**

Question 62

one hundred and eight thousand three hundred and nine cao **B1**

Answer: **one hundred and eight thousand three hundred and nine**

Question 63

8,447 cao **B1**

Answer: **8,447**

Question 64

900,000 cao **B1**

Answer: **900,000**

Question 65

110,000 cao **B1**

Answer: **110,000**

Question 66

> cao **B1**

Answer: **>**

Question 67

300 cao **B1**

Answer: **300**

Question 68

417,520 cao **B1**

Answer: **417,520**

Question 69

920,228 cao **B1**

Answer: **920,228**

Question 70

636,041 cao **B1**

Answer: **636,041**

Question 71

(a) XLVII cao **B1**

(a) Answer: **XLVII**

(b) 64 cao **B1**

(b) Answer: **64**

Question 72

0 cao **B1**

Answer: **0**

Question 73

507 cao **B1**

Answer: **507**

Question 74

415,441, 410,172, 399,489, 385,212 cao **B1**

Answer: **415,441, 410,172, 399,489, 385,212**

Question 75

100,141 cao **B1**

Answer: **100,141**

Question 76

10,000 cao **B1**

Answer: **10,000**

Question 77

300 cao **B1**

Answer: **300**

Question 78

CLXXV cao **B1**

Answer: **CLXXV**

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