10.3-6 Reasoning Practice Paper 6: 30-minute Pack

STA KS2 National Curriculum Mathematics - STA Reasoning Test Framework · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write the Roman numeral XLIV as a number.

(1)

2 A school sports club has 150 members.
2/5 of the members are girls.
60% of the girls also play in the netball team.
Of the boys, 1/6 also play in the cricket team.
Calculate how many more girls play netball than boys play cricket.

(4)

3 Work out 2 2/3 + 3 1/3.

Give your answer in its simplest form.

Answer: ___

(2)

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4 Round 574,273 to the nearest ten thousand.

Answer: ___

(1)

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5 2/6 = ___/30

Answer: ___

(1)

---

6 Write these fractions in order, starting with the largest.

1/2, 1/6, 1/3

Answer: ___

(1)

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7 Estimate 3,533 - 1,267 by rounding each number to the nearest 1,000 first.

Answer: ___

(2)

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8 Find the missing number in this sequence.

9,807, 10,057, 10,307, 10,557, 10,807, ___

Answer: ___

(1)

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9 The temperature in Helsinki at 6 am is -6 degrees. By noon it has risen by 3 degrees.

What is the temperature at noon?

Answer: ___ degrees

(2)

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10 Mateo has 3,080 cards. Mateo puts 1,995 aside and shares the rest equally between 7 friends.

How many cards does each friend get?

Answer: ___

(2)

---

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

800,117, 763,960, 793,502, 787,608

Answer: ___

(1)

---

12 What is 10,000 more than 125,679?

Answer: ___

(1)

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13 Use each of the digits 3, 6, 1, 9 once to make the largest possible 4-digit number.

Answer: ___

(2)

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14 Which fraction is equivalent to 3/4?

A: 6/7 B: 9/13 C: 10/12 D: 9/12

Write the letter.

Answer: ___

(1)

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15 The sum of 5 consecutive odd numbers is 185.

What is the smallest of the 5 numbers?

Answer: ___

(2)

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Mark scheme · 10.3-6 Reasoning Practice Paper 6: 30-minute Pack

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

Question 1

44 cao	B1

Answer: **44**

Question 2

number of girls = 2/5 x 150 (=60) found	M1
number of boys = 150-60 (=90) found	M1
60% of 60 (=36) and 1/6 of 90 (=15) both found	M1
21 cao	A1

Answer: **21**

Question 3

converts to a common denominator	M1
6 cao	A1

Answer: **6**

Question 4

570,000 cao	B1

Answer: **570,000**

Question 5

10 cao	B1

Answer: **10**

Question 6

1/2, 1/3, 1/6 cao	B1

Answer: **1/2, 1/3, 1/6**

Question 7

4,000 and 1,000 seen	M1
3,000 cao	A1

Answer: **3,000**

Question 8

11,057 cao	B1

Answer: **11,057**

Question 9

adds the rise to the negative start	M1
-3 degrees cao	A1

Answer: **-3 degrees**

Question 10

1,085 seen	M1
155 cao	A1

Answer: **155**

Question 11

800,117, 793,502, 787,608, 763,960 cao	B1

Answer: **800,117, 793,502, 787,608, 763,960**

Question 12

135,679 cao	B1

Answer: **135,679**

Question 13

digits placed in value order	M1
9,631 cao	A1

Answer: **9,631**

Question 14

D cao	B1

Answer: **D**

Question 15

uses the mean or tests numbers	M1
33 cao	A1

Answer: **33**

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