10.3-8 Reasoning Practice Paper 8: 30-minute Pack

NATIONAL CURRICULUM KS2 National Curriculum Mathematics - Reasoning Practice Paper Framework · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Sam earns £45 doing weekend jobs. He saves 2/5 of it and spends the rest equally between a book and a film ticket. Work out how much Sam spends on the film ticket.

(3)

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2 Rosie thinks of a number. She multiplies it by 4, subtracts 9, then divides the result by 3. Her final answer is 13. Work out the number Rosie started with.

(3)

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3 A kite costs £17.72 and a juice costs £6.45. Noah pays with a £25 note.

How much change does Noah get?

Answer: £___

(2)

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4 What is the value of the digit 3 in 9.362?

Answer: ___

(1)

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5 Quinn, Noah and Kiran share 133 stickers in the ratio 1:2:4.

How many stickers does Kiran get?

Answer: ___

(1)

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6 Yusuf and Hana share 252 football cards in the ratio 2:7.

How many football cards does Yusuf get?

Answer: ___

(2)

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7 What percentage of 25 is 23?

Answer: ___ %

(2)

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8 Write these in order, smallest first.

7/10, 20%, 30%

Answer: ___

(2)

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9 The first four terms of a sequence are 4, 9, 14, 19.

(a) State the term-to-term rule for this sequence. **(1)**

(b) Work out the 10th term of the sequence. **(2)**

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10 Work out 2/3 - 1/6.

Give your answer in its simplest form.

Answer: ___

(1)

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11 Which fraction is equivalent to 1/8?

A: 5/32 B: 4/33 C: 5/12 D: 4/32

Write the letter.

Answer: ___

(1)

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12 Round 65.573 to 2 decimal places.

Answer: ___

(1)

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13 Four friends' times for a 100m race were: Ben 14.6 seconds, Chloe 14.58 seconds, Deepak 14.65 seconds, Priya 14.09 seconds. Write the four times in order, starting with the fastest.

(2)

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Mark scheme · 10.3-8 Reasoning Practice Paper 8: 30-minute Pack

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

Question 1

2/5 of 45 = 18 (45 / 5 = 9, 9 x 2 = 18) oe	M1
amount remaining = 45 - 18 = 27, dependent on correct savings amount	M1
27 / 2 = £13.50 cao	A1

Answer: **£13.50**

Question 2

reverses the division: 13 x 3 = 39 oe	M1
reverses the subtraction: 39 + 9 = 48, dependent on correct value of 39	M1
12 cao (48 / 4 = 12)	A1

Answer: **12**

Question 3

24.17 seen	M1
£0.83 cao	A1

Answer: **£0.83**

Question 4

0.3 cao	B1

Answer: **0.3**

Question 5

76 cao	B1

Answer: **76**

Question 6

252 divided by 9 = 28 seen	M1
56 cao	A1

Answer: **56**

Question 7

fraction as a percentage	M1
92% cao	A1

Answer: **92%**

Question 8

converts to a common form	M1
20%, 30%, 7/10 cao	A1

Answer: **20%, 30%, 7/10**

Question 9

(a) add 5 (each time) oe	B1

(a) Answer: **Add 5 to the previous term**

(b) nth term = 5n - 1, or repeated addition of 5 from the 4th term, oe	M1
(b) 49 cao	A1

(b) Answer: **49**

Question 10

1/2 cao	B1

Answer: **1/2**

Question 11

D cao	B1

Answer: **D**

Question 12

65.57 cao	B1

Answer: **65.57**

Question 13

Priya identified as fastest and Deepak identified as slowest	B1
Priya (14.09), Chloe (14.58), Ben (14.6), Deepak (14.65) cao (all four in correct order)	B1

Answer: **Priya (14.09s), Chloe (14.58s), Ben (14.6s), Deepak (14.65s)**

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