10.3-8 Reasoning Practice Paper 8: 1-hour Pack

NATIONAL CURRICULUM KS2 National Curriculum Mathematics - Reasoning Practice Paper Framework · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Callum eats 4/9 of a pizza on Monday and 4/9 on Tuesday.

What fraction of the pizza is left? Give your answer in its simplest form.

Answer: ___

(2)

---

2 In a sale, a football costs £25. The price is reduced by 15%.

What is the sale price?

Answer: £___

(3)

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3 For every 1 sunny days there are 3 rainy days. There are 12 sunny days.

How many rainy days are there?

Answer: ___

(2)

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4 A plank is 9.4 metres. How many metres are there in 8 planks?

Answer: ___ metres

(2)

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5 Priya eats 1/4 of a bar of chocolate on Monday and 2/4 on Tuesday.

What fraction of the bar of chocolate is left? Give your answer in its simplest form.

Answer: ___

(2)

---

6 Write 14/20 in its simplest form.

Answer: ___

(1)

---

7 Write 11/4 as a mixed number.

Answer: ___

(2)

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8 A rectangle is 11 cm wide. It is enlarged by scale factor 6.

How wide is the enlarged rectangle?

Answer: ___ cm

(1)

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9 In a school choir, the ratio of girls to boys is 5:3. There are 40 children in the choir altogether. Work out how many more girls than boys there are.

(3)

---

10 Work out 40% of 72 kg.

Answer: ___

(2)

---

11 Write 1/2 as a decimal.

Answer: ___

(1)

---

12 Write 0.85 as a fraction in its simplest form.

Answer: ___

(2)

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13 A plank is 8.9 metres. How many metres are there in 9 planks?

Answer: ___ metres

(2)

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14 Write 20% as a fraction in its simplest form.

Answer: ___

(1)

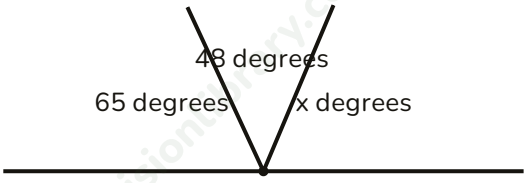
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15 A cinema sells tickets for £6.50 for adults and £4.25 for children. A family of 2 adults and 3 children buys tickets, and also spends £9.90 on popcorn and drinks. Work out the total amount the family spends.

(3)

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16 Three angles meet at a point on a straight line. Two of the angles are 65 degrees and 48 degrees. Work out the size of the third angle.



(2)

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17 Ethan and Willow share 170 marbles in the ratio 7:3.

How many marbles does Willow get?

Answer: ___

(2)

---

18 A recipe for scones for 2 people uses 75 g of flour.

How much flour is needed for 12 people?

Answer: ___ g

(2)

---

19 A plank is 6.7 metres. How many metres are there in 3 planks?

Answer: ___ metres

(2)

---

20 Priya and Uma share £30 in the ratio 4:2.

How much does Uma get?

Answer: £___

(1)

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21 Work out 40% of 108 m.

Answer: ___

(2)

---

22 Work out 50% of 148 cm.

Answer: ___

(2)

---

23 Write these in order, smallest first.

9/20, 7/10, 0.6

Answer: ___

(2)

---

24 Increase £84 by 10%.

Answer: ___

(1)

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25 Work out 1 5/6 + 2 7/12.

Give your answer in its simplest form.

Answer: ___

(1)

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26 Round 80.707 to 2 decimal places.

Answer: ___

(1)

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Mark scheme · 10.3-8 Reasoning Practice Paper 8: 1-hour Pack

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

Question 1

8/9 eaten seen	M1
1/9 cao	A1

Answer: **1/9**

Question 2

reduction found	M1
subtracts from the original price	M1
£21.25 cao	A1

Answer: **£21.25**

Question 3

12 divided by 1 = 12 seen	M1
36 cao	A1

Answer: **36**

Question 4

multiplication seen	M1
75.2 metres cao	A1

Answer: **75.2 metres**

Question 5

3/4 eaten seen	M1
1/4 cao	A1

Answer: **1/4**

Question 6

7/10 cao	B1

Answer: **7/10**

Question 7

method seen	M1
2 3/4 cao	A1

Answer: **2 3/4**

Question 8

66 cm cao	B1

Answer: **66 cm**

Question 9

5 + 3 = 8 (total parts), 40 / 8 = 5 (value of one part) oe	M1
girls = 5 x 5 = 25, boys = 3 x 5 = 15, dependent on correct value of one part	dM1
10 cao	A1

Answer: **10 more girls than boys**

Question 10

10% or 1% found	M1
28.8 kg cao	A1

Answer: **28.8 kg**

Question 11

0.5 cao	B1

Answer: **0.5**

Question 12

method seen	M1
17/20 cao	A1

Answer: **17/20**

Question 13

multiplication seen	M1
80.1 metres cao	A1

Answer: **80.1 metres**

Question 14

1/5 cao	B1

Answer: **1/5**

Question 15

2 x 6.50 = 13.00 oe	M1
3 x 4.25 = 12.75 oe	M1
13.00 + 12.75 + 9.90 = £35.65 cao	A1

Answer: **£35.65**

Question 16

180 - 65 - 48 oe	M1
67 degrees cao	A1

Answer: **67 degrees**

Question 17

170 divided by 10 = 17 seen	M1
51 cao	A1

Answer: **51**

Question 18

finds the amount for 1 person or a scale factor	M1
450 g cao	A1

Answer: **450 g**

Question 19

multiplication seen	M1
20.1 metres cao	A1

Answer: **20.1 metres**

Question 20

£10 cao	B1

Answer: **£10**

Question 21

10% or 1% found	M1
43.2 m cao	A1

Answer: **43.2 m**

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Question 22

10% or 1% found	**M1**
74 cm cao	**A1**

Answer: **74 cm**

Question 23

converts to a common form	**M1**
9/20, 0.6, 7/10 cao	**A1**

Answer: **9/20, 0.6, 7/10**

Question 24

£92.40 cao	**B1**

Answer: **£92.40**

Question 25

4 5/12 or 53/12 cao	**B1**

Answer: **4 5/12**

Question 26

80.71 cao	**B1**

Answer: **80.71**

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