5.2 Ratio and Proportion: 10-minute Pack

Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A class of 30 children have pets in the ratio cats:dogs = 2:3. How many children have cats?

(2)

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2 On a map, 1 cm shows 5 km. Two towns are 9 cm apart on the map.

How far apart are the towns in real life?

Answer: ___ km

(1)

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3 Write the ratio 18:63 in its simplest form.

Answer: ___

(2)

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4 The ratio of cats to dogs is 5:1. There are 72 pets altogether.

How many cats are there?

Answer: ___

(2)

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5 A shop sells 2 crayons for 96p and 10 crayons for 151p.

Which pack is better value for money? Write the number of crayons in the pack.

Answer: ___

(2)

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Mark scheme · 5.2 Ratio and Proportion: 10-minute Pack

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

Question 1

Total parts 2+3 = 5, 30 ÷ 5 = 6	**M1**
Cats = 2 × 6 = 12 cao	**B1**

Answer: **12**

Question 2

45 km cao	**B1**

Answer: **45 km**

Question 3

divides both by a common factor	**M1**
2:7 cao	**A1**

Answer: **2:7**

Question 4

72 divided by 6 = 12 seen	**M1**
60 cao	**A1**

Answer: **60**

Question 5

finds the cost of one in each pack	**M1**
10 cao	**A1**

Answer: **10**

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