3.1 Ratio, Proportion and Rates of Change: 10-minute Pack

Calculator allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 y is directly proportional to x. When x = 5, y = 45. Work out the value of y when x = 20.

(2)

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2 A block has a mass of 73.2 g and a volume of 12 cm³. Work out its density in g/cm^3.

(2)

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3 A shop sells apples at a constant price each. 3 apples cost £5.73. How many apples can be bought for £11.46?

(3)

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4 A recipe uses 300 ml of stock and 1.5 litres of water. Write the ratio of stock to water in its simplest form.

(2)

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Mark scheme · 3.1 Ratio, Proportion and Rates of Change: 10-minute Pack

Question 1

$y = kx$ with $k = 45 \div 5 = 9$	**M1**
180 cao	**A1**

Answer: **180**

Question 2

$73.2 \div 12$	**M1**
6.1 g/cm^3 cao	**A1**

Answer: **6.1 g/cm^3**

Question 3

£5.73 ÷ 3 = £1.91	**M1**
£11.46 ÷ £1.91	**M1**
6 cao	**A1**

Answer: **6**

Question 4

1.5 litres = 1500 ml (correct unit conversion)	**M1**
1 : 5 cao	**A1**

Answer: **1 : 5**

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