2.69-5 Percentages and Ratio: Practice Set 5: 10-minute Pack

Total Marks

GL ASSESSMENT GL · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Which fraction is equivalent to 35%?

- ☐ A) 7/20
- ☐ B) 3/10
- ☐ C) 2/5
- ☐ D) 7/100
- ☐ E) 3/8

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2 Simplify the ratio 42 : 56 to its simplest form.

- ☐ A) 3 : 4
- ☐ B) 6 : 8
- ☐ C) 7 : 8
- ☐ D) 21 : 28
- ☐ E) 4 : 3

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3 A market stall has 16 blueberry muffins and 24 bran muffins. Write the ratio of blueberry muffins to bran muffins in its simplest form.

(1)

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4 Complete the missing number: 5 : 9 = 30 : ___

(1)

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5 Convert 17/20 to a percentage.

(1)

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6 A pair of trainers is priced at £85. They are reduced by 20% in a sale. What is the sale price?

- ☐ A) £17
- ☐ B) £59.50
- ☐ C) £65
- ☐ D) £68
- ☐ E) £102

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7 An electric scooter is priced at £480. Its price increases by 15%. Find the new price.

(3)

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8 Find 10% of £860.

(1)

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9 Shop I sells an 800 g box of cereal for £3.60. Shop J sells a 1.4 kg box of the same cereal for £6.02. Work out which shop offers better value for money, showing your working.

(3)

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Mark scheme · 2.69-5 Percentages and Ratio: Practice Set 5: 10-minute Pack

Question 1

A) 7/20 cao **B1**

Answer: 7/20

Question 2

A) 3 : 4 cao **B1**

Answer: 3 : 4

Question 3

2 : 3 oe cao **B1**

Answer: 2 : 3

Question 4

54 cao **B1**

Answer: 54

Question 5

85% cao **B1**

Answer: 85%

Question 6

D) £68 cao **B1**

Answer: £68

Question 7

10% of 480 found (= 48), used to build 15% (= 72) (oe) **M1**

dep: 480 + their 15% increase **M1**

£552 cao **A1**

Answer: £552

Question 8

£86 cao **B1**

Answer: £86

Question 9

price per 100 g at Shop I found: (3.60/800) x 100 = 0.45 **M1**

price per 100 g at Shop J found: (6.02/1400) x 100 = 0.43 **M1**

Shop J offers better value cao (£0.43 per 100 g versus £0.45 per 100 g at Shop I) **A1**

Answer: Shop J (£0.43 per 100 g versus £0.45 per 100 g at Shop I)

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