2.82 Direct Proportion and Value for Money: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A jar normally contains 400 g of jam. A promotion gives 20% extra free for the same price. How many grams are in the promotional jar?

- ☐ A) 460 g
- ☐ B) 400 g
- ☐ C) 480 g
- ☐ D) 420 g
- ☐ E) 520 g

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2 4 postcards cost £6.00. How much do 17 postcards cost?

- ☐ A) £24.50
- ☐ B) £1.50
- ☐ C) £25.50
- ☐ D) £26.50
- ☐ E) £102.00

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3 Ethan compares packs of crisps: pack A is 100 g for £0.86; pack B is 250 g for £1.05; pack C is 400 g for £3.40; pack D is 600 g for £5.04; pack E is 750 g for £2.48. Which pack is the best value for money?

- ☐ A) Pack A
- ☐ B) Pack E
- ☐ C) Pack B
- ☐ D) Pack C
- ☐ E) Pack D

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4 Esme compares packs of crisps: pack A is 150 g for £0.87; pack B is 200 g for £1.18; pack C is 800 g for £5.12; pack D is 1000 g for £5.20; pack E is 1500 g for £9.45. Which pack is the best value for money?

- [ ] A) Pack C
- [ ] B) Pack A
- [ ] C) Pack B
- [ ] D) Pack E
- [ ] E) Pack D

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5 10 pens cost £0.50. How much do 13 pens cost?

- [ ] A) £0.05
- [ ] B) £6.50
- [ ] C) £0.15
- [ ] D) £0.65
- [ ] E) £1.65

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6 Fatima compares packs of rice: pack A is 200 g for £1.44; pack B is 400 g for £2.48; pack C is 750 g for £6.08; pack D is 800 g for £6.32; pack E is 1500 g for £4.95. Which pack is the best value for money?

- [ ] A) Pack C
- [ ] B) Pack E
- [ ] C) Pack D
- [ ] D) Pack B
- [ ] E) Pack A

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7 Declan compares packs of shampoo: pack A is 100 ml for £0.56; pack B is 125 ml for £0.64; pack C is 500 ml for £3.15; pack D is 600 ml for £3.18; pack E is 1500 ml for £8.70. Which pack is the best value for money?

- [ ] A) Pack A
- [ ] B) Pack D
- [ ] C) Pack E
- [ ] D) Pack C
- [ ] E) Pack B

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8 10 cakes cost £2.50. How much do 15 cakes cost?

- ☐ A) £1.25
- ☐ B) £3.75
- ☐ C) £0.25
- ☐ D) £4.75
- ☐ E) £37.50

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9 Isla compares packs of shampoo: pack A is 125 ml for £1.09; pack B is 300 ml for £1.71; pack C is 500 ml for £2.90; pack D is 1000 ml for £5.00; pack E is 1200 ml for £7.92. Which pack is the best value for money?

- ☐ A) Pack D
- ☐ B) Pack C
- ☐ C) Pack A
- ☐ D) Pack E
- ☐ E) Pack B

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10 Priya sees an offer: 3 chocolate bars for £2.10. There is also a store discount of 20% off the total when you buy 5 or more bars. How much would she pay for 6 bars with the discount?

(2)

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Mark scheme · 2.82 Direct Proportion and Value for Money: 10-minute Pack

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

Question 1

correct option C (480 g) cao **B1**

Answer: C) 480 g

Question 2

correct option C (£25.50) cao; one costs 150p so 17 cost 17 x 150p **B1**

Answer: C) £25.50

Question 3

correct option B (Pack E) cao; the lowest price per unit is the best value **B1**

Answer: B) Pack E

Question 4

correct option E (Pack D) cao; the lowest price per unit is the best value **B1**

Answer: E) Pack D

Question 5

correct option D (£0.65) cao; one costs 5p so 13 cost 13 x 5p **B1**

Answer: D) £0.65

Question 6

correct option B (Pack E) cao; the lowest price per unit is the best value **B1**

Answer: B) Pack E

Question 7

correct option E (Pack B) cao; the lowest price per unit is the best value **B1**

Answer: E) Pack B

Question 8

correct option B (£3.75) cao; one costs 25p so 15 cost 15 x 25p **B1**

Answer: B) £3.75

Question 9

correct option A (Pack D) cao; the lowest price per unit is the best value **B1**

Answer: A) Pack D

Question 10

full price for 6 bars found: 6 × £0.70 = £4.20 seen **M1**

£3.36 cao (20% off £4.20 gives £3.36) **A1**

Answer: £3.36 (3 for £2.10 -> £0.70 each; 6 × £0.70 = £4.20; 20% off -> 80% × £4.20 = £3.36)

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