2.8 Money Problems: 30-minute Pack

GL ASSESSMENT GL · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bike lock costs £244. Callum has £91 and saves £2 each week. What is the smallest number of weeks before Callum has enough money?

- [ ] A) 76 weeks
- [ ] B) 153 weeks
- [ ] C) 77 weeks
- [ ] D) 78 weeks
- [ ] E) 122 weeks

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2 A scooter costs £187. Sana has £61 and saves £12 each week. What is the smallest number of weeks before Sana has enough money?

- [ ] A) 10 weeks
- [ ] B) 12 weeks
- [ ] C) 126 weeks
- [ ] D) 11 weeks
- [ ] E) 15 weeks

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3 A guitar costs £124. Dylan has £20 and saves £12 each week. What is the smallest number of weeks before Dylan has enough money?

- [ ] A) 104 weeks
- [ ] B) 8 weeks
- [ ] C) 11 weeks
- [ ] D) 10 weeks
- [ ] E) 9 weeks

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4 A guitar costs £271. Lily has £67 and saves £8 each week. What is the smallest number of weeks before Lily has enough money?

- [ ] A) 26 weeks
- [ ] B) 27 weeks
- [ ] C) 25 weeks
- [ ] D) 34 weeks
- [ ] E) 204 weeks

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5 A board game costs £161. Chloe has £42 and saves £6 each week. What is the smallest number of weeks before Chloe has enough money?

- [ ] A) 27 weeks
- [ ] B) 20 weeks
- [ ] C) 19 weeks
- [ ] D) 119 weeks
- [ ] E) 21 weeks

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6 A football kit costs £281. Lily has £107 and saves £7 each week. What is the smallest number of weeks before Lily has enough money?

- [ ] A) 40 weeks
- [ ] B) 25 weeks
- [ ] C) 26 weeks
- [ ] D) 41 weeks
- [ ] E) 24 weeks

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7 A telescope costs £298. Esme has £147 and saves £3 each week. What is the smallest number of weeks before Esme has enough money?

- [ ] A) 50 weeks
- [ ] B) 100 weeks
- [ ] C) 51 weeks
- [ ] D) 99 weeks
- [ ] E) 52 weeks

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8 A board game costs £298. Rhys has £105 and saves £12 each week. What is the smallest number of weeks before Rhys has enough money?

- [ ] A) 17 weeks
- [ ] B) 16 weeks
- [ ] C) 193 weeks
- [ ] D) 18 weeks
- [ ] E) 25 weeks

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9 A board game costs £196. Oliver has £87 and saves £6 each week. What is the smallest number of weeks before Oliver has enough money?

- [ ] A) 33 weeks
- [ ] B) 32 weeks
- [ ] C) 20 weeks
- [ ] D) 18 weeks
- [ ] E) 19 weeks

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10 A bike lock costs £292. Chloe has £59 and saves £2 each week. What is the smallest number of weeks before Chloe has enough money?

- [ ] A) 116 weeks
- [ ] B) 146 weeks
- [ ] C) 117 weeks
- [ ] D) 233 weeks
- [ ] E) 118 weeks

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11 A telescope costs £294. Ffion has £26 and saves £6 each week. What is the smallest number of weeks before Ffion has enough money?

- [ ] A) 46 weeks
- [ ] B) 49 weeks
- [ ] C) 44 weeks
- [ ] D) 45 weeks
- [ ] E) 268 weeks

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12 A board game costs £129. Oliver has £19 and saves £4 each week. What is the smallest number of weeks before Oliver has enough money?

- [ ] A) 28 weeks
- [ ] B) 27 weeks
- [ ] C) 110 weeks
- [ ] D) 33 weeks
- [ ] E) 29 weeks

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13 A scooter costs £137. Niamh has £43 and saves £5 each week. What is the smallest number of weeks before Niamh has enough money?

- [ ] A) 94 weeks
- [ ] B) 19 weeks
- [ ] C) 18 weeks
- [ ] D) 20 weeks
- [ ] E) 27 weeks

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14 A board game costs £109. Mei has £10 and saves £2 each week. What is the smallest number of weeks before Mei has enough money?

- [ ] A) 99 weeks
- [ ] B) 54 weeks
- [ ] C) 51 weeks
- [ ] D) 49 weeks
- [ ] E) 50 weeks

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15 A board game costs £125. Ben has £19 and saves £12 each week. What is the smallest number of weeks before Ben has enough money?

- [ ] A) 106 weeks
- [ ] B) 8 weeks
- [ ] C) 9 weeks
- [ ] D) 10 weeks
- [ ] E) 11 weeks

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16 A guitar costs £229. Callum has £9 and saves £3 each week. What is the smallest number of weeks before Callum has enough money?

- [ ] A) 74 weeks
- [ ] B) 76 weeks
- [ ] C) 77 weeks
- [ ] D) 75 weeks
- [ ] E) 73 weeks

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17 A guitar costs £40. Priya has £9 and saves £4 each week. What is the smallest number of weeks before Priya has enough money?

- [ ] A) 31 weeks
- [ ] B) 9 weeks
- [ ] C) 7 weeks
- [ ] D) 8 weeks
- [ ] E) 10 weeks

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18 A recipe for 4 people costs £6.80 to make. Kwame wants to make enough for 10 people. Assuming the cost is directly proportional to the number of people, calculate the cost for 10 people.

(3)

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19 Chloe spent 3/4 of her money on a games controller. She had £15 left. How much money did she have originally?

(3)

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20 A television is priced at £480. In a sale it is reduced by 30%. Yusuf also has a voucher giving a further 10% off the sale price.

(a) Calculate the price after the 30% sale discount. **(2)**

.....

(b) Calculate the final price after the voucher is applied to the sale price. **(2)**

.....

(c) Work out the overall percentage reduction from the original price of £480. **(2)**

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21 Ibrahim buys a magazine for £3.20 and a pack of stickers for £1.85. He pays with a £10 note. How much change should he receive?

(3)

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Mark scheme · 2.8 Money Problems: 30-minute Pack

Question 1

correct option C (77 weeks) cao **B1**

Answer: C) 77 weeks

Question 2

correct option D (11 weeks) cao **B1**

Answer: D) 11 weeks

Question 3

correct option E (9 weeks) cao **B1**

Answer: E) 9 weeks

Question 4

correct option A (26 weeks) cao **B1**

Answer: A) 26 weeks

Question 5

correct option B (20 weeks) cao **B1**

Answer: B) 20 weeks

Question 6

correct option B (25 weeks) cao **B1**

Answer: B) 25 weeks

Question 7

correct option C (51 weeks) cao **B1**

Answer: C) 51 weeks

Question 8

correct option A (17 weeks) cao **B1**

Answer: A) 17 weeks

Question 9

correct option E (19 weeks) cao **B1**

Answer: E) 19 weeks

Question 10

correct option C (117 weeks) cao **B1**

Answer: C) 117 weeks

Question 11

correct option D (45 weeks) cao **B1**

Answer: D) 45 weeks

Question 12

correct option A (28 weeks) cao **B1**

Answer: A) 28 weeks

Question 13

correct option B (19 weeks) cao **B1**

Answer: B) 19 weeks

Question 14

correct option E (50 weeks) cao **B1**

Answer: E) 50 weeks

Question 15

correct option C (9 weeks) cao **B1**

Answer: C) 9 weeks

Question 16

correct option A (74 weeks) cao **B1**

Answer: A) 74 weeks

Question 17

correct option D (8 weeks) cao **B1**

Answer: D) 8 weeks

Question 18

6.80 / 4 = 1.70 (cost per person, oe) **M1**

their cost per person x 10 (ft) **M1**

17.00 cao **A1**

Answer: £17.00

Question 19

Recognises £15 represents 1/4 of the original amount **M1**

Multiplies 15 by 4 (oe) **dM1**

60 cao **A1**

Answer: £60

Question 20

(a) 480 x 0.70 (oe) **M1**

(a) 336 cao **A1**

(a) Answer: £336

(b) their (a) x 0.90 (ft) **M1**

(b) 302.40 cao **A1**

(b) Answer: £302.40

(c) (480 - their (b)) / 480 (ft) **M1**

(c) 37% cao **A1**

(c) Answer: 37%

Question 21

3.20 + 1.85 (oe) **M1**

10.00 - their total (ft) **M1**

4.95 cao **A1**

Answer: £4.95

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