2.8 Money Problems: 1-hour Pack

GL ASSESSMENT GL · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A football kit costs £103. Zainab has £4 and saves £2 each week. What is the smallest number of weeks before Zainab has enough money?

- ☐ A) 49 weeks
- ☐ B) 52 weeks
- ☐ C) 51 weeks
- ☐ D) 99 weeks
- ☐ E) 50 weeks

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2 A bike lock costs £270. Ewan has £98 and saves £7 each week. What is the smallest number of weeks before Ewan has enough money?

- ☐ A) 38 weeks
- ☐ B) 172 weeks
- ☐ C) 25 weeks
- ☐ D) 24 weeks
- ☐ E) 26 weeks

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3 A football kit costs £99. Sana has £18 and saves £12 each week. What is the smallest number of weeks before Sana has enough money?

- ☐ A) 9 weeks
- ☐ B) 8 weeks
- ☐ C) 6 weeks
- ☐ D) 7 weeks
- ☐ E) 81 weeks

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4 A guitar costs £129. Ethan has £62 and saves £8 each week. What is the smallest number of weeks before Ethan has enough money?

- [ ] A) 8 weeks
- [ ] B) 9 weeks
- [ ] C) 10 weeks
- [ ] D) 17 weeks
- [ ] E) 16 weeks

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5 A board game costs £300. Tariq has £97 and saves £3 each week. What is the smallest number of weeks before Tariq has enough money?

- [ ] A) 68 weeks
- [ ] B) 100 weeks
- [ ] C) 203 weeks
- [ ] D) 67 weeks
- [ ] E) 69 weeks

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6 A scooter costs £162. Niamh has £69 and saves £5 each week. What is the smallest number of weeks before Niamh has enough money?

- [ ] A) 93 weeks
- [ ] B) 33 weeks
- [ ] C) 20 weeks
- [ ] D) 18 weeks
- [ ] E) 19 weeks

---

7 A football kit costs £101. Tom has £38 and saves £5 each week. What is the smallest number of weeks before Tom has enough money?

- [ ] A) 63 weeks
- [ ] B) 12 weeks
- [ ] C) 14 weeks
- [ ] D) 13 weeks
- [ ] E) 20 weeks

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8 A football kit costs £218. Ffion has £103 and saves £6 each week. What is the smallest number of weeks before Ffion has enough money?

- [ ] A) 115 weeks
- [ ] B) 21 weeks
- [ ] C) 20 weeks
- [ ] D) 19 weeks
- [ ] E) 37 weeks

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9 A scooter costs £267. Isla has £94 and saves £12 each week. What is the smallest number of weeks before Isla has enough money?

- [ ] A) 15 weeks
- [ ] B) 22 weeks
- [ ] C) 14 weeks
- [ ] D) 16 weeks
- [ ] E) 173 weeks

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10 A football kit costs £220. Ben has £6 and saves £3 each week. What is the smallest number of weeks before Ben has enough money?

- [ ] A) 72 weeks
- [ ] B) 74 weeks
- [ ] C) 73 weeks
- [ ] D) 71 weeks
- [ ] E) 214 weeks

---

11 A bike lock costs £109. Zainab has £23 and saves £12 each week. What is the smallest number of weeks before Zainab has enough money?

- [ ] A) 86 weeks
- [ ] B) 10 weeks
- [ ] C) 9 weeks
- [ ] D) 7 weeks
- [ ] E) 8 weeks

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12 A telescope costs £171. Lily has £69 and saves £12 each week. What is the smallest number of weeks before Lily has enough money?

- [ ] A) 14 weeks
- [ ] B) 102 weeks
- [ ] C) 10 weeks
- [ ] D) 9 weeks
- [ ] E) 8 weeks

---

13 A board game costs £285. Chloe has £130 and saves £3 each week. What is the smallest number of weeks before Chloe has enough money?

- [ ] A) 95 weeks
- [ ] B) 52 weeks
- [ ] C) 51 weeks
- [ ] D) 53 weeks
- [ ] E) 155 weeks

---

14 A bike lock costs £149. Arjun has £38 and saves £8 each week. What is the smallest number of weeks before Arjun has enough money?

- [ ] A) 111 weeks
- [ ] B) 13 weeks
- [ ] C) 14 weeks
- [ ] D) 15 weeks
- [ ] E) 19 weeks

---

15 A guitar costs £100. Arjun has £28 and saves £5 each week. What is the smallest number of weeks before Arjun has enough money?

- [ ] A) 16 weeks
- [ ] B) 14 weeks
- [ ] C) 20 weeks
- [ ] D) 15 weeks
- [ ] E) 72 weeks

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16 A bike lock costs £87. Declan has £40 and saves £8 each week. What is the smallest number of weeks before Declan has enough money?

- [ ] A) 6 weeks
- [ ] B) 10 weeks
- [ ] C) 47 weeks
- [ ] D) 7 weeks
- [ ] E) 5 weeks

---

17 A scooter costs £104. Tom has £29 and saves £4 each week. What is the smallest number of weeks before Tom has enough money?

- [ ] A) 75 weeks
- [ ] B) 19 weeks
- [ ] C) 18 weeks
- [ ] D) 26 weeks
- [ ] E) 20 weeks

---

18 A scooter costs £239. Ffion has £96 and saves £7 each week. What is the smallest number of weeks before Ffion has enough money?

- [ ] A) 20 weeks
- [ ] B) 22 weeks
- [ ] C) 34 weeks
- [ ] D) 35 weeks
- [ ] E) 21 weeks

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19 A board game costs £191. Fatima has £35 and saves £5 each week. What is the smallest number of weeks before Fatima has enough money?

- [ ] A) 156 weeks
- [ ] B) 38 weeks
- [ ] C) 33 weeks
- [ ] D) 31 weeks
- [ ] E) 32 weeks

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20 A guitar costs £20. Declan has £10 and saves £6 each week. What is the smallest number of weeks before Declan has enough money?

- [ ] A) 1 weeks
- [ ] B) 2 weeks
- [ ] C) 3 weeks
- [ ] D) 10 weeks
- [ ] E) 4 weeks

---

21 A telescope costs £78. Jack has £22 and saves £6 each week. What is the smallest number of weeks before Jack has enough money?

- [ ] A) 11 weeks
- [ ] B) 9 weeks
- [ ] C) 56 weeks
- [ ] D) 10 weeks
- [ ] E) 13 weeks

---

22 A bike lock costs £207. Lily has £48 and saves £5 each week. What is the smallest number of weeks before Lily has enough money?

- [ ] A) 32 weeks
- [ ] B) 31 weeks
- [ ] C) 33 weeks
- [ ] D) 42 weeks
- [ ] E) 41 weeks

---

23 A bike lock costs £172. Zainab has £34 and saves £8 each week. What is the smallest number of weeks before Zainab has enough money?

- [ ] A) 18 weeks
- [ ] B) 19 weeks
- [ ] C) 17 weeks
- [ ] D) 22 weeks
- [ ] E) 21 weeks

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24 A telescope costs £256. Jack has £95 and saves £8 each week. What is the smallest number of weeks before Jack has enough money?

- [ ] A) 32 weeks
- [ ] B) 21 weeks
- [ ] C) 22 weeks
- [ ] D) 161 weeks
- [ ] E) 20 weeks

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25 A guitar costs £280. Sienna has £114 and saves £3 each week. What is the smallest number of weeks before Sienna has enough money?

- [ ] A) 94 weeks
- [ ] B) 166 weeks
- [ ] C) 56 weeks
- [ ] D) 57 weeks
- [ ] E) 55 weeks

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26 A board game costs £253. Kwame has £75 and saves £4 each week. What is the smallest number of weeks before Kwame has enough money?

- [ ] A) 178 weeks
- [ ] B) 44 weeks
- [ ] C) 46 weeks
- [ ] D) 64 weeks
- [ ] E) 45 weeks

---

27 A bike lock costs £220. Grace has £73 and saves £12 each week. What is the smallest number of weeks before Grace has enough money?

- [ ] A) 147 weeks
- [ ] B) 12 weeks
- [ ] C) 18 weeks
- [ ] D) 13 weeks
- [ ] E) 14 weeks

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28 A telescope costs £243. Ben has £17 and saves £12 each week. What is the smallest number of weeks before Ben has enough money?

- [ ] A) 18 weeks
- [ ] B) 21 weeks
- [ ] C) 19 weeks
- [ ] D) 226 weeks
- [ ] E) 20 weeks

---

29 A scooter costs £292. Hamza has £93 and saves £6 each week. What is the smallest number of weeks before Hamza has enough money?

- [ ] A) 49 weeks
- [ ] B) 48 weeks
- [ ] C) 35 weeks
- [ ] D) 34 weeks
- [ ] E) 33 weeks

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30 A scooter costs £246. Sana has £15 and saves £6 each week. What is the smallest number of weeks before Sana has enough money?

- [ ] A) 38 weeks
- [ ] B) 39 weeks
- [ ] C) 40 weeks
- [ ] D) 41 weeks
- [ ] E) 231 weeks

---

31 A telescope costs £254. Isla has £51 and saves £2 each week. What is the smallest number of weeks before Isla has enough money?

- [ ] A) 101 weeks
- [ ] B) 127 weeks
- [ ] C) 203 weeks
- [ ] D) 103 weeks
- [ ] E) 102 weeks

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32 A telescope costs £243. Tom has £40 and saves £12 each week. What is the smallest number of weeks before Tom has enough money?

- [ ] A) 17 weeks
- [ ] B) 18 weeks
- [ ] C) 20 weeks
- [ ] D) 21 weeks
- [ ] E) 16 weeks

---

33 A guitar costs £160. Noah has £24 and saves £5 each week. What is the smallest number of weeks before Noah has enough money?

- [ ] A) 27 weeks
- [ ] B) 29 weeks
- [ ] C) 136 weeks
- [ ] D) 32 weeks
- [ ] E) 28 weeks

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34 A scooter costs £186. Niamh has £50 and saves £12 each week. What is the smallest number of weeks before Niamh has enough money?

- [ ] A) 11 weeks
- [ ] B) 13 weeks
- [ ] C) 15 weeks
- [ ] D) 12 weeks
- [ ] E) 16 weeks

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35 A scooter costs £246. Priya has £73 and saves £4 each week. What is the smallest number of weeks before Priya has enough money?

- [ ] A) 43 weeks
- [ ] B) 62 weeks
- [ ] C) 44 weeks
- [ ] D) 61 weeks
- [ ] E) 45 weeks

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36 A guitar costs £240. Rhys has £111 and saves £2 each week. What is the smallest number of weeks before Rhys has enough money?

- ☐ A) 64 weeks
- ☐ B) 65 weeks
- ☐ C) 129 weeks
- ☐ D) 66 weeks
- ☐ E) 120 weeks

---

37 Priya invests £400 in a savings account.

(a) The account pays 5% simple interest per year. Calculate the total amount in the account after 2 years. **(3)**

.....

(b) Suppose instead the account pays 5% compound interest per year (interest is added to the balance and then itself earns interest). Calculate the total amount after 2 years. **(3)**

.....

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38 Ibrahim, Freya and Olamide pooled their money to buy a present. Ibrahim gave £4 more than Freya. Olamide gave twice as much as Freya. Altogether they gave £44. How much did each person give?

(5)

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39 A scooter costs £212. Callum has £81 and saves £3 each week. What is the smallest number of weeks before Callum has enough money?

- [ ] A) 44 weeks
- [ ] B) 43 weeks
- [ ] C) 131 weeks
- [ ] D) 45 weeks
- [ ] E) 71 weeks

---

40 A bike lock costs £137. Hamza has £6 and saves £2 each week. What is the smallest number of weeks before Hamza has enough money?

- [ ] A) 65 weeks
- [ ] B) 67 weeks
- [ ] C) 68 weeks
- [ ] D) 131 weeks
- [ ] E) 66 weeks

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41 A football kit costs £146. Dylan has £18 and saves £12 each week. What is the smallest number of weeks before Dylan has enough money?

- [ ] A) 12 weeks
- [ ] B) 10 weeks
- [ ] C) 128 weeks
- [ ] D) 11 weeks
- [ ] E) 13 weeks

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42 A board game costs £162. Sienna has £74 and saves £6 each week. What is the smallest number of weeks before Sienna has enough money?

- [ ] A) 88 weeks
- [ ] B) 27 weeks
- [ ] C) 15 weeks
- [ ] D) 16 weeks
- [ ] E) 14 weeks

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43 A scooter costs £148. Declan has £57 and saves £2 each week. What is the smallest number of weeks before Declan has enough money?

- [ ] A) 45 weeks
- [ ] B) 46 weeks
- [ ] C) 91 weeks
- [ ] D) 47 weeks
- [ ] E) 74 weeks

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44 A bike lock costs £254. Priya has £101 and saves £4 each week. What is the smallest number of weeks before Priya has enough money?

- [ ] A) 63 weeks
- [ ] B) 39 weeks
- [ ] C) 64 weeks
- [ ] D) 40 weeks
- [ ] E) 38 weeks

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45 A scooter costs £191. Imogen has £16 and saves £3 each week. What is the smallest number of weeks before Imogen has enough money?

- [ ] A) 59 weeks
- [ ] B) 63 weeks
- [ ] C) 60 weeks
- [ ] D) 175 weeks
- [ ] E) 58 weeks

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46 A scooter costs £72. Poppy has £9 and saves £4 each week. What is the smallest number of weeks before Poppy has enough money?

- [ ] A) 18 weeks
- [ ] B) 15 weeks
- [ ] C) 17 weeks
- [ ] D) 16 weeks
- [ ] E) 63 weeks

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47 A board game costs £186. Mei has £51 and saves £4 each week. What is the smallest number of weeks before Mei has enough money?

- [ ] A) 33 weeks
- [ ] B) 35 weeks
- [ ] C) 34 weeks
- [ ] D) 47 weeks
- [ ] E) 135 weeks

---

48 A telescope costs £172. Mei has £71 and saves £4 each week. What is the smallest number of weeks before Mei has enough money?

- [ ] A) 27 weeks
- [ ] B) 101 weeks
- [ ] C) 25 weeks
- [ ] D) 43 weeks
- [ ] E) 26 weeks

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49 A telescope costs £75. Kofi has £34 and saves £6 each week. What is the smallest number of weeks before Kofi has enough money?

- [ ] A) 12 weeks
- [ ] B) 8 weeks
- [ ] C) 41 weeks
- [ ] D) 7 weeks
- [ ] E) 6 weeks

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50 A board game costs £93. Kofi has £44 and saves £3 each week. What is the smallest number of weeks before Kofi has enough money?

- [ ] A) 17 weeks
- [ ] B) 49 weeks
- [ ] C) 31 weeks
- [ ] D) 16 weeks
- [ ] E) 18 weeks

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51 A telescope costs £101. Mei has £38 and saves £8 each week. What is the smallest number of weeks before Mei has enough money?

- ☐ A) 7 weeks
- ☐ B) 9 weeks
- ☐ C) 8 weeks
- ☐ D) 13 weeks
- ☐ E) 12 weeks

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52 Ravi puts £250 into a savings account paying 4% simple interest per year.

(a) Calculate the interest earned after 1 year. **(2)**

.....

(b) Calculate the total amount in the account after 3 years. **(2)**

.....

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Mark scheme · 2.8 Money Problems: 1-hour Pack

Question 1

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

Answer: E) 50 weeks

Question 2

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

Answer: C) 25 weeks

Question 3

correct option D (7 weeks) cao **B1**

Answer: D) 7 weeks

Question 4

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

Answer: B) 9 weeks

Question 5

correct option A (68 weeks) cao **B1**

Answer: A) 68 weeks

Question 6

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

Answer: E) 19 weeks

Question 7

correct option D (13 weeks) cao **B1**

Answer: D) 13 weeks

Question 8

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

Answer: C) 20 weeks

Question 9

correct option A (15 weeks) cao **B1**

Answer: A) 15 weeks

Question 10

correct option A (72 weeks) cao **B1**

Answer: A) 72 weeks

Question 11

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

Answer: E) 8 weeks

Question 12

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

Answer: D) 9 weeks

Question 13

correct option B (52 weeks) cao **B1**

Answer: B) 52 weeks

Question 14

correct option C (14 weeks) cao **B1**

Answer: C) 14 weeks

Question 15

correct option D (15 weeks) cao **B1**

Answer: D) 15 weeks

Question 16

correct option A (6 weeks) cao **B1**

Answer: A) 6 weeks

Question 17

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

Answer: B) 19 weeks

Question 18

correct option E (21 weeks) cao **B1**

Answer: E) 21 weeks

Question 19

correct option E (32 weeks) cao **B1**

Answer: E) 32 weeks

Question 20

correct option B (2 weeks) cao **B1**

Answer: B) 2 weeks

Question 21

correct option D (10 weeks) cao **B1**

Answer: D) 10 weeks

Question 22

correct option A (32 weeks) cao **B1**

Answer: A) 32 weeks

Question 23

correct option A (18 weeks) cao **B1**

Answer: A) 18 weeks

Question 24

correct option B (21 weeks) cao **B1**

Answer: B) 21 weeks

Question 25

correct option C (56 weeks) cao **B1**

Answer: C) 56 weeks

Question 26

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

Answer: E) 45 weeks

Question 27

correct option D (13 weeks) cao **B1**

Answer: D) 13 weeks

Question 28

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

Answer: C) 19 weeks

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Question 29

correct option D (34 weeks) cao **B1**

Answer: D) 34 weeks

Question 30

correct option B (39 weeks) cao **B1**

Answer: B) 39 weeks

Question 31

correct option E (102 weeks) cao **B1**

Answer: E) 102 weeks

Question 32

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

Answer: A) 17 weeks

Question 33

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

Answer: E) 28 weeks

Question 34

correct option D (12 weeks) cao **B1**

Answer: D) 12 weeks

Question 35

correct option C (44 weeks) cao **B1**

Answer: C) 44 weeks

Question 36

correct option B (65 weeks) cao **B1**

Answer: B) 65 weeks

Question 37

(a) 5% of 400 = 20 (interest per year, oe) **M1**

(a) 400 + 2 x 20 (ft) **M1**

(a) 440 cao **A1**

(a) Answer: £440

(b) 400 x 1.05 = 420 (year 1 balance, oe) **M1**

(b) 420 x 1.05 (year 2 balance, ft) **M1**

(b) 441 cao **A1**

(b) Answer: £441

Question 38

Lets Freya = x and forms the equation x + (x + 4) + 2x = 44 (oe) **M1**

Simplifies and solves to find x, e.g. 4x + 4 = 44 **dM1**

Freya = 10 cao **A1**

Ibrahim = 14 cao, ft **A1**

Olamide = 20 cao, ft **A1**

Answer: Freya £10, Ibrahim £14, Olamide £20

Question 39

correct option A (44 weeks) cao **B1**

Answer: A) 44 weeks

Question 40

correct option E (66 weeks) cao **B1**

Answer: E) 66 weeks

Question 41

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

Answer: D) 11 weeks

Question 42

correct option C (15 weeks) cao **B1**

Answer: C) 15 weeks

Question 43

correct option B (46 weeks) cao **B1**

Answer: B) 46 weeks

Question 44

correct option B (39 weeks) cao **B1**

Answer: B) 39 weeks

Question 45

correct option A (59 weeks) cao **B1**

Answer: A) 59 weeks

Question 46

correct option D (16 weeks) cao **B1**

Answer: D) 16 weeks

Question 47

correct option C (34 weeks) cao **B1**

Answer: C) 34 weeks

Question 48

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

Answer: E) 26 weeks

Question 49

correct option D (7 weeks) cao **B1**

Answer: D) 7 weeks

Question 50

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

Answer: A) 17 weeks

Question 51

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

Answer: C) 8 weeks

Question 52

(a) 4% of 250 (oe) **M1**

(a) 10 cao **A1**

(a) Answer: £10

(b) 250 + 3 x their (a) (ft) **M1**

(b) 280 cao **A1**

(b) Answer: £280

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