2.8 Money Problems: Test Pack

GL ASSESSMENT GL · Calculators not allowed · about 40 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Jack has a £5 note. He buys a chocolate bar costing £1.15. How much change does he get?

(2)

2 After a 20% discount, a pair of trainers costs £52. Work out the original price.

(3)

3 A scooter costs £120. Mei has £16 and saves £7 each week. What is the smallest number of weeks before Mei has enough money?

- ☐ A) 18 weeks
- ☐ B) 16 weeks
- ☐ C) 14 weeks
- ☐ D) 15 weeks
- ☐ E) 104 weeks

© Revision Library | revisionlibrary.co.uk

4 Six friends share a restaurant bill of £87 equally, but first they add a 10% tip to the bill.

(a) Calculate the total bill including the tip. **(2)**

.....

(b) Work out how much each of the 6 friends should pay. Give your answer to the nearest penny. **(2)**

.....

---

5 A telescope costs £138. Imogen has £39 and saves £8 each week. What is the smallest number of weeks before Imogen has enough money?

- ☐ A) 14 weeks
- ☐ B) 18 weeks
- ☐ C) 99 weeks
- ☐ D) 12 weeks
- ☐ E) 13 weeks

---

6 A bike lock costs £124. Dylan has £44 and saves £3 each week. What is the smallest number of weeks before Dylan has enough money?

- ☐ A) 41 weeks
- ☐ B) 27 weeks
- ☐ C) 80 weeks
- ☐ D) 26 weeks
- ☐ E) 28 weeks

---

7 A scooter costs £229. Noah has £48 and saves £12 each week. What is the smallest number of weeks before Noah has enough money?

- ☐ A) 20 weeks
- ☐ B) 16 weeks
- ☐ C) 17 weeks
- ☐ D) 181 weeks
- ☐ E) 15 weeks

© Revision Library | revisionlibrary.co.uk

8 A football kit costs £232. Esme has £72 and saves £12 each week. What is the smallest number of weeks before Esme has enough money?

- ☐ A) 20 weeks
- ☐ B) 15 weeks
- ☐ C) 14 weeks
- ☐ D) 19 weeks
- ☐ E) 13 weeks

---

9 A bike lock costs £86. Poppy has £16 and saves £6 each week. What is the smallest number of weeks before Poppy has enough money?

- ☐ A) 15 weeks
- ☐ B) 11 weeks
- ☐ C) 12 weeks
- ☐ D) 13 weeks
- ☐ E) 70 weeks

---

10 Amara receives £45 as a birthday gift. She spends 2/5 of it on clothes, then spends 1/3 of what is left on a book. How much money does she have left after buying the book?

(4)

---

11 A telescope costs £99. Ravi has £11 and saves £3 each week. What is the smallest number of weeks before Ravi has enough money?

- ☐ A) 30 weeks
- ☐ B) 31 weeks
- ☐ C) 33 weeks
- ☐ D) 88 weeks
- ☐ E) 29 weeks

© Revision Library | revisionlibrary.co.uk

12 Freya buys 4 pens costing 65p each. Work out the total cost.

(2)

---

13 A guitar costs £212. Imogen has £59 and saves £4 each week. What is the smallest number of weeks before Imogen has enough money?

- ☐ A) 153 weeks
- ☐ B) 38 weeks
- ☐ C) 53 weeks
- ☐ D) 40 weeks
- ☐ E) 39 weeks

---

14 A football kit costs £220. Anya has £29 and saves £4 each week. What is the smallest number of weeks before Anya has enough money?

- ☐ A) 49 weeks
- ☐ B) 48 weeks
- ☐ C) 47 weeks
- ☐ D) 191 weeks
- ☐ E) 55 weeks

---

15 Lucy saves £3.50 each week from her pocket money.

(a) Calculate how much she has saved after 8 weeks. **(2)**

.....

(b) Work out the least number of whole weeks needed for her total savings to be at least £47. **(3)**

.....

© Revision Library | revisionlibrary.co.uk

16 A bike lock costs £216. Harry has £13 and saves £6 each week. What is the smallest number of weeks before Harry has enough money?

- [ ] A) 33 weeks
- [ ] B) 34 weeks
- [ ] C) 35 weeks
- [ ] D) 36 weeks
- [ ] E) 203 weeks

---

17 A football kit costs £140. Maya has £45 and saves £7 each week. What is the smallest number of weeks before Maya has enough money?

- [ ] A) 14 weeks
- [ ] B) 13 weeks
- [ ] C) 95 weeks
- [ ] D) 20 weeks
- [ ] E) 15 weeks

---

18 A football kit costs £279. Harry has £91 and saves £7 each week. What is the smallest number of weeks before Harry has enough money?

- [ ] A) 188 weeks
- [ ] B) 27 weeks
- [ ] C) 28 weeks
- [ ] D) 40 weeks
- [ ] E) 26 weeks

---

19 A jacket costs £48. In a sale it is reduced by 25%. Calculate the sale price.

(3)

© Revision Library | revisionlibrary.co.uk

20 A guitar costs £239. Ben has £105 and saves £3 each week. What is the smallest number of weeks before Ben has enough money?

- ☐ A) 46 weeks
- ☐ B) 45 weeks
- ☐ C) 79 weeks
- ☐ D) 80 weeks
- ☐ E) 44 weeks

---

21 A scooter costs £139. Anya has £34 and saves £4 each week. What is the smallest number of weeks before Anya has enough money?

- ☐ A) 27 weeks
- ☐ B) 28 weeks
- ☐ C) 35 weeks
- ☐ D) 34 weeks
- ☐ E) 26 weeks

---

22 A scooter costs £291. Esme has £42 and saves £6 each week. What is the smallest number of weeks before Esme has enough money?

- ☐ A) 48 weeks
- ☐ B) 41 weeks
- ☐ C) 42 weeks
- ☐ D) 49 weeks
- ☐ E) 43 weeks

---

23 Shop A sells a box of 6 juice cartons for £2.70. Shop B sells a box of 8 identical cartons for £3.44.

(a) Work out the cost per carton at each shop. **(2)**

(b) Which shop offers better value for money? Give a reason. **(1)**

© Revision Library | revisionlibrary.co.uk

24 A football kit costs £35. Ffion has £17 and saves £8 each week. What is the smallest number of weeks before Ffion has enough money?

- [ ] A) 2 weeks
- [ ] B) 3 weeks
- [ ] C) 4 weeks
- [ ] D) 18 weeks
- [ ] E) 5 weeks

---

25 A telescope costs £253. Hamza has £60 and saves £8 each week. What is the smallest number of weeks before Hamza has enough money?

- [ ] A) 31 weeks
- [ ] B) 25 weeks
- [ ] C) 24 weeks
- [ ] D) 32 weeks
- [ ] E) 26 weeks

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.8 Money Problems: Test Pack

Question 1

Correct subtraction set up, e.g. 5.00 - 1.15 (oe)	**M1**
3.85 cao	**A1**

Answer: £3.85

Question 2

Recognises 52 represents 80% of the original price	**M1**
Finds 1% = 0.65 and scales to 100% (oe method)	**dM1**
65 cao	**A1**

Answer: £65

Question 3

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

Answer: D) 15 weeks

Question 4

(a) 87 x 1.10 (oe)	**M1**
(a) 95.70 cao	**A1**

(a) Answer: £95.70

(b) their (a) / 6 (ft)	**M1**
(b) 15.95 cao	**A1**

(b) Answer: £15.95

Question 5

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

Answer: E) 13 weeks

Question 6

correct option B (27 weeks) cao	**B1**

Answer: B) 27 weeks

Question 7

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

Answer: B) 16 weeks

Question 8

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

Answer: C) 14 weeks

Question 9

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

Answer: C) 12 weeks

Question 10

2/5 of 45 = 18 (oe)	**M1**
45 - 18 = 27 (remainder, ft)	**M1**
1/3 of 27 = 9 (ft)	**M1**
18 cao	**A1**

Answer: £18

Question 11

correct option A (30 weeks) cao	**B1**

Answer: A) 30 weeks

Question 12

4 x 0.65 (oe)	**M1**
2.60 cao (accept 260p)	**A1**

Answer: £2.60

Question 13

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

Answer: E) 39 weeks

Question 14

correct option B (48 weeks) cao	**B1**

Answer: B) 48 weeks

Question 15

(a) 3.50 x 8 (oe)	**M1**
(a) 28.00 cao	**A1**

(a) Answer: £28.00

(b) 47 / 3.50 (oe), awrt 13.4	**M1**
(b) Rounds up to next whole number of weeks with reasoning (13 weeks gives 45.50, not enough)	**dM1**
(b) 14 cao	**A1**

(b) Answer: 14 weeks

Question 16

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

Answer: B) 34 weeks

Question 17

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

Answer: A) 14 weeks

Question 18

correct option B (27 weeks) cao	**B1**

Answer: B) 27 weeks

Question 19

10% of 48 = 4.80, so 25% = 12 (oe method)	**M1**
12 seen	**A1**
36 cao	**A1**

Answer: £36

Question 20

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

Answer: B) 45 weeks

Question 21

correct option A (27 weeks) cao	**B1**

Answer: A) 27 weeks

Question 22

correct option C (42 weeks) cao	**B1**

Answer: C) 42 weeks

© Revision Library | revisionlibrary.co.uk

Question 23

(a) 2.70 / 6 and 3.44 / 8 (oe method for both) **M1**

(a) Shop A = 45p and Shop B = 43p, both cao **A1**

(a) Answer: Shop A 45p, Shop B 43p

(b) Shop B, because it has a lower cost per carton (43p < 45p), ft from (a) **B1**

(b) Answer: Shop B

Question 24

correct option B (3 weeks) cao **B1**

Answer: B) 3 weeks

Question 25

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

Answer: B) 25 weeks

© Revision Library | revisionlibrary.co.uk