# 2.80 Ratio Sharing when the Difference is Given: Test Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** Two children share a prize in the ratio 3:5. The larger share is £8 more than the smaller share. What is the smaller share?

- ☐ A) £8
- ☐ B) £12
- ☐ C) £16
- ☐ D) £20
- ☐ E) £24

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**2** A prize fund is shared between a school choir and a school orchestra in the ratio 1:6. The orchestra receives £40 more than the choir. How much does the orchestra receive?

- ☐ A) £8
- ☐ B) £40
- ☐ C) £48
- ☐ D) £56
- ☐ E) £240

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**3** Two friends share a bag of pens in the ratio 1:4. The larger share is 9 pens more than the smaller. How many pens does the smaller friend get?

- ☐ A) 1
- ☐ B) 3
- ☐ C) 4
- ☐ D) 6
- ☐ E) 9


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**4** Tariq and Fatima share some money in the ratio 8:11. Fatima gets £48 more than Tariq. How much does Tariq receive?

- [ ] A) £176.00
- [ ] B) £129.00
- [ ] C) £127.00
- [ ] D) £128.00
- [ ] E) £16.00

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**5** Dylan and Maya share some badges in the ratio 6:7. Maya gets 5 badges more than Dylan. How many badges does Dylan receive?

- [ ] A) 35
- [ ] B) 65
- [ ] C) 31
- [ ] D) 5
- [ ] E) 30

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**6** Three siblings share savings in the ratio 3:4:7. The largest sibling gets £30 more than the middle sibling. How much does the smallest sibling receive?

- [ ] A) £10
- [ ] B) £20
- [ ] C) £30
- [ ] D) £40
- [ ] E) £60

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**7** Two friends, Kwame and Erin, share a bag of conkers in the ratio 2:5. Erin has 12 more conkers than Kwame. How many conkers do they have altogether?

- [ ] A) 28
- [ ] B) 8
- [ ] C) 4
- [ ] D) 20
- [ ] E) 12


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**8** Aisha and Sana share some shells in the ratio 5:9. Sana gets 32 shells more than Aisha. How many shells are there altogether?

- [ ] A) 112
- [ ] B) 72
- [ ] C) 8
- [ ] D) 32
- [ ] E) 40

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**9** Leo and Noah share some money in the ratio 4:7. Noah gets £18 more than Leo. How much does Noah receive?

- [ ] A) £6.00
- [ ] B) £18.00
- [ ] C) £126.00
- [ ] D) £24.00
- [ ] E) £42.00

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**10** Harry and Lily share some conkers in the ratio 2:3. Lily gets 6 conkers more than Harry. How many conkers does Lily receive?

- [ ] A) 17
- [ ] B) 6
- [ ] C) 30
- [ ] D) 12
- [ ] E) 18

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**11** A market trader splits the cost of a delivery van between two partners in the ratio 2:9. The partner who pays more pays £28 more than the other. What is the total cost of the delivery van?

- [ ] A) £36
- [ ] B) £28
- [ ] C) £44
- [ ] D) £4
- [ ] E) £8


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**12** Two colleagues share commission in the ratio 3:8. The larger gets £30 more than the smaller. How much does the larger colleague receive?

- [ ] A) £66
- [ ] B) £6
- [ ] C) £48
- [ ] D) £30
- [ ] E) £18

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**13** Chloe and Kofi share some money in the ratio 1:3. Kofi gets £22 more than Chloe. How much does Chloe receive?

- [ ] A) £11.00
- [ ] B) £12.00
- [ ] C) £33.00
- [ ] D) £44.00
- [ ] E) £22.00

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**14** Two colleagues share commission in the ratio 6:11. The larger gets £25 more than the smaller. How much does the larger colleague receive?

- [ ] A) £25
- [ ] B) £33
- [ ] C) £44
- [ ] D) £55
- [ ] E) £66

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**15** Two window cleaners split a block of jobs by pay in the ratio 3:9. The cleaner with fewer jobs is paid £18 less than the other cleaner. How much is the cleaner with fewer jobs paid?

- [ ] A) £9
- [ ] B) £3
- [ ] C) £18
- [ ] D) £27
- [ ] E) £36


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**16** Two children, Priya and Noah, share a box of beads in the ratio 5:8. Noah has 21 more beads than Priya. How many beads does Priya have?

- [ ] A) 56
- [ ] B) 7
- [ ] C) 91
- [ ] D) 35
- [ ] E) 21

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**17** Anya and Chloe share some stamps in the ratio 1:6. Chloe gets 35 stamps more than Anya. How many stamps does Chloe receive?

- [ ] A) 42
- [ ] B) 49
- [ ] C) 7
- [ ] D) 41
- [ ] E) 35

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**18** Poppy and Imogen share some stickers in the ratio 6:7. Imogen gets 2 stickers more than Poppy. How many stickers does Imogen receive?

- [ ] A) 13
- [ ] B) 14
- [ ] C) 2
- [ ] D) 15
- [ ] E) 12

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**19** Ethan and Megan share some beads in the ratio 4:5. Megan gets 3 beads more than Ethan. How many beads does Megan receive?

- [ ] A) 14
- [ ] B) 12
- [ ] C) 15
- [ ] D) 16
- [ ] E) 3


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**20** Sam and Priya share sweets in the ratio 6:3. Sam has 15 more sweets than Priya. How many sweets does Sam have?

- [ ] A) 18
- [ ] B) 30
- [ ] C) 15
- [ ] D) 5
- [ ] E) 45

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**21** A farmer stores hay bales in two barns in the ratio 2:5. The larger barn holds 30 more bales than the smaller barn. How many bales does the larger barn hold?

- [ ] A) 30
- [ ] B) 50
- [ ] C) 10
- [ ] D) 20
- [ ] E) 70

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**22** Ethan and Priya share some sweets in the ratio 3:4. Priya gets 5 sweets more than Ethan. How many sweets does Priya receive?

- [ ] A) 35
- [ ] B) 19
- [ ] C) 15
- [ ] D) 5
- [ ] E) 20

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**23** Sienna and Imogen share some stickers in the ratio 2:3. Imogen gets 8 stickers more than Sienna. How many stickers does Imogen receive?

- [ ] A) 8
- [ ] B) 16
- [ ] C) 24
- [ ] D) 25
- [ ] E) 23


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**24** Two Year 6 classes, 6R and 6S, collect recycling tokens for a class competition in the ratio 4:6. Class 6S collects 6 more tokens than Class 6R. How many tokens do the two classes collect altogether?

- [ ] A) 18
- [ ] B) 30
- [ ] C) 24
- [ ] D) 12
- [ ] E) 6

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**25** Two window cleaners split a block of jobs by pay in the ratio 5:9. The cleaner with fewer jobs is paid £12 less than the other cleaner. How much is the cleaner with fewer jobs paid?

- [ ] A) £3
- [ ] B) £27
- [ ] C) £42
- [ ] D) £12
- [ ] E) £15

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**26** Dylan and Sana share some badges in the ratio 7:9. Sana gets 34 badges more than Dylan. How many badges does Dylan receive?

- [ ] A) 153
- [ ] B) 34
- [ ] C) 17
- [ ] D) 118
- [ ] E) 119

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**27** Noah and Callum share some stickers in the ratio 9:11. Callum gets 8 stickers more than Noah. How many stickers does Noah receive?

- [ ] A) 37
- [ ] B) 44
- [ ] C) 36
- [ ] D) 80
- [ ] E) 4


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**28** Megan and Zainab share some money in the ratio 1:4. Zainab gets £6 more than Megan. How much does Zainab receive?

- [ ] A) £10.00
- [ ] B) £8.00
- [ ] C) £9.00
- [ ] D) £6.00
- [ ] E) £2.00

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**29** Poppy and Amara share some money in the ratio 4:9. Amara gets £40 more than Poppy. How much does Amara receive?

- [ ] A) £72.00
- [ ] B) £104.00
- [ ] C) £8.00
- [ ] D) £40.00
- [ ] E) £32.00

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**30** A farmer stores hay bales in two barns in the ratio 2:7. The larger barn holds 30 more bales than the smaller barn. How many bales does the larger barn hold?

- [ ] A) 6
- [ ] B) 12
- [ ] C) 30
- [ ] D) 42
- [ ] E) 54

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**31** A raffle prize is split between the first and second ticket drawn in the ratio 3:9. The second ticket wins £42 more than the first. What is the total value of the prize?

- [ ] A) £42
- [ ] B) £7
- [ ] C) £63
- [ ] D) £84
- [ ] E) £21


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**32** Two market stalls split their Saturday takings in the ratio 4:7. The stall with the larger takings earned £21 more than the other stall. How much did the smaller-earning stall take?

- [ ] A) £49
- [ ] B) £28
- [ ] C) £77
- [ ] D) £21
- [ ] E) £7

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**33** Ravi and Priya share some money in the ratio 5:6. Priya gets £4 more than Ravi. How much does Ravi receive?

- [ ] A) £24
- [ ] B) £19
- [ ] C) £4
- [ ] D) £20
- [ ] E) £21

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**34** Ben and Noah share some stickers in the ratio 4:7. Noah gets 12 stickers more than Ben. How many stickers are there altogether?

- [ ] A) 12
- [ ] B) 84
- [ ] C) 16
- [ ] D) 4
- [ ] E) 44

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**35** Callum and Kwame share some beads in the ratio 1:3. Kwame gets 12 beads more than Callum. How many beads are there altogether?

- [ ] A) 18
- [ ] B) 6
- [ ] C) 24
- [ ] D) 23
- [ ] E) 12


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**36** Aisha and Ethan share some marbles in the ratio 1:5. Ethan gets 8 marbles more than Aisha. How many marbles does Aisha receive?

- [ ] A) 1
- [ ] B) 10
- [ ] C) 12
- [ ] D) 2
- [ ] E) 8

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**37** Two allotment holders share the cost of seed and compost in the ratio 3:7. The one who pays more pays £16 more than the other. How much does the one who pays more actually pay?

- [ ] A) £4
- [ ] B) £12
- [ ] C) £28
- [ ] D) £40
- [ ] E) £16

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**38** A charity divides a sum in the ratio 2:7. The difference between the shares is £20. What is the total amount given out?

- [ ] A) £28
- [ ] B) £20
- [ ] C) £8
- [ ] D) £36
- [ ] E) £4

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**39** Noah and Poppy share some money in the ratio 5:11. Poppy gets £36 more than Noah. How much does Noah receive?

- [ ] A) £29
- [ ] B) £30
- [ ] C) £66
- [ ] D) £180
- [ ] E) £6


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**40** A charity bake sale splits its profit between two classes in the ratio 5:9. The class with the larger share raises £36 more than the other class. How much does the larger-sharing class raise?

- [ ] A) £9
- [ ] B) £36
- [ ] C) £45
- [ ] D) £81
- [ ] E) £126

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**41** A market trader splits the cost of a delivery van between two partners in the ratio 6:13. The partner who pays more pays £28 more than the other. What is the total cost of the delivery van?

- [ ] A) £4
- [ ] B) £24
- [ ] C) £48
- [ ] D) £52
- [ ] E) £76

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**42** Three cousins share a family gift of money in the ratio 2:5:9. The cousin with the largest share receives £63 more than the cousin with the smallest share. Work out how much the cousin with the smallest share receives.

**(3)**

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**43** Four fun-run teams share their sponsorship money in the ratio 4:5:7:10. The team with the most parts raises £54 more than the team with the fewest parts. Work out the TOTAL sponsorship raised by all four teams.

**(5)**


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**44** Aisha and Yusuf share some marbles in the ratio 5:7. Yusuf gets 6 marbles more than Aisha. How many marbles does Yusuf receive?

- [ ] A) 21
- [ ] B) 42
- [ ] C) 15
- [ ] D) 3
- [ ] E) 36

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**45** Poppy and Sana share some stickers in the ratio 4:7. Sana gets 6 stickers more than Poppy. How many stickers does Sana receive?

- [ ] A) 2
- [ ] B) 6
- [ ] C) 13
- [ ] D) 8
- [ ] E) 14

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**46** Arjun and Callum share some money in the ratio 3:4. Callum gets £8 more than Arjun. How much does Arjun receive?

- [ ] A) £24.00
- [ ] B) £25.00
- [ ] C) £32.00
- [ ] D) £8.00
- [ ] E) £23.00

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**47** A teacher divides reward points between two teams in the ratio 3:7. The larger team has 20 more points than the smaller. What is the total number of points?

- [ ] A) 20
- [ ] B) 35
- [ ] C) 40
- [ ] D) 50
- [ ] E) 70


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**48** Two youth sports clubs share a sponsorship payment in the ratio 9:11. The larger club receives £16 more than the smaller club. Work out how much the smaller club receives.

- [ ] A) £16
- [ ] B) £72
- [ ] C) £8
- [ ] D) £88
- [ ] E) £160

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**49** Two children, Priya and Noah, share a box of beads in the ratio 3:8. Noah has 10 more beads than Priya. How many beads does Priya have?

- [ ] A) 2
- [ ] B) 6
- [ ] C) 10
- [ ] D) 22
- [ ] E) 16

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**50** A raffle prize is split between the first and second ticket drawn in the ratio 4:7. The second ticket wins £12 more than the first. What is the total value of the prize?

- [ ] A) £28
- [ ] B) £12
- [ ] C) £16
- [ ] D) £4
- [ ] E) £44

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**51** Two cousins share a birthday gift of money from their grandparents in the ratio 2:7. The cousin with the larger share receives £15 more than the other cousin. How much does the cousin with the smaller share receive?

- [ ] A) £27
- [ ] B) £21
- [ ] C) £3
- [ ] D) £6
- [ ] E) £15


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**52** Two children split apples in the ratio 2:3. The larger child has 12 more apples than the smaller. How many apples are there in total?

- [ ] A) 24
- [ ] B) 36
- [ ] C) 60
- [ ] D) 12
- [ ] E) 6

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**53** Niamh and Sienna share some shells in the ratio 3:4. Sienna gets 18 shells more than Niamh. How many shells does Niamh receive?

- [ ] A) 54
- [ ] B) 53
- [ ] C) 72
- [ ] D) 126
- [ ] E) 18

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**54** Fatima and Arjun share some raffle tickets in the ratio 1:7. Arjun gets 48 raffle tickets more than Fatima. How many raffle tickets are there altogether?

- [ ] A) 8
- [ ] B) 63
- [ ] C) 64
- [ ] D) 48
- [ ] E) 56

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**55** Harry and Kwame share some money in the ratio 9:14. Kwame gets £40 more than Harry. How much money are there altogether?

- [ ] A) £8.00
- [ ] B) £560.00
- [ ] C) £72.00
- [ ] D) £183.00
- [ ] E) £184.00


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# Mark scheme · 2.80 Ratio Sharing when the Difference is Given: Test Pack

## Question 1

correct option B (£12) cao **B1**

**Answer: B) £12 (smaller share = £12). The parts differ by 2, so 1 part = 8/2 = 4; smaller = 3 x 4 = 12. | Working check: distractors from common slips: A) assumes 1 part = 8, C) adds incorrectly, D/E) use wrong multiplier.**

## Question 2

correct option C (£48) cao **B1**

**Answer: C) £48. Difference = 6 - 1 = 5 parts, so 1 part = 40/5 = 8; the orchestra receives 6 x 8 = £48. Working check: A) is the choir's share (equal to 1 part here), B) repeats the given difference, D) is the combined total of both groups, E) multiplies the difference by 6 instead of dividing by 5 first.**

## Question 3

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

**Answer: B) 3 pens. Difference = 3 parts so 1 part = 9/3 = 3; smaller = 1 x 3 = 3. | Working check: A/C/D/E) common misdivisions or reading larger as 4 parts of 9.**

## Question 4

correct option D (£128.00) cao; 11 - 8 = 3 parts is 48, so 1 part is 16 **B1**

**Answer: D) £128.00**

## Question 5

correct option E (30) cao; 7 - 6 = 1 parts is 5, so 1 part is 5 **B1**

**Answer: E) 30**

## Question 6

correct option C (£30) cao **B1**

**Answer: C) £30. Largest - middle = 7 - 4 = 3 parts, so 1 part = 30/3 = 10; smallest = 3 x 10 = 30. | Working check: distractors come from misidentifying which parts to use or using the wrong difference.**

## Question 7

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

**Answer: A) 28**

## Question 8

correct option A (112) cao; 9 - 5 = 4 parts is 32, so 1 part is 8 **B1**

**Answer: A) 112**

## Question 9

correct option E (£42.00) cao; 7 - 4 = 3 parts is 18, so 1 part is 6 **B1**

**Answer: E) £42.00**

## Question 10

correct option E (18) cao; 3 - 2 = 1 parts is 6, so 1 part is 6 **B1**

**Answer: E) 18**

## Question 11

correct option C (£44) cao **B1**

**Answer: C) £44**

## Question 12

correct option C (£48) cao **B1**

**Answer: C) £48**

## Question 13

correct option A (£11.00) cao; 3 - 1 = 2 parts is 22, so 1 part is 11 **B1**

**Answer: A) £11.00**

## Question 14

correct option D (£55) cao **B1**

**Answer: D) £55. Difference = 5 parts so 1 part = 25/5 = 5; larger = 11 x 5 = 55. | Working check: A/B/C/E) common multiplication or division slips.**

## Question 15

correct option A (£9) cao **B1**

**Answer: A) £9**

## Question 16

correct option D (35) cao **B1**

**Answer: D) 35**

## Question 17

correct option A (42) cao; 6 - 1 = 5 parts is 35, so 1 part is 7 **B1**

**Answer: A) 42**

## Question 18

correct option B (14) cao; 7 - 6 = 1 parts is 2, so 1 part is 2 **B1**

**Answer: B) 14**

## Question 19

correct option C (15) cao; 5 - 4 = 1 parts is 3, so 1 part is 3 **B1**

**Answer: C) 15**

## Question 20

correct option B (30) cao **B1**

**Answer: B) 30**

## Question 21

correct option B (50) cao **B1**

**Answer: B) 50**

## Question 22

correct option E (20) cao; 4 - 3 = 1 parts is 5, so 1 part is 5 **B1**

**Answer: E) 20**

## Question 23

correct option C (24) cao; 3 - 2 = 1 parts is 8, so 1 part is 8 **B1**

**Answer: C) 24**

## Question 24

correct option B (30) cao **B1**

**Answer: B) 30**


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## Question 25

correct option E (£15) cao **B1**

**Answer: E) £15**

## Question 26

correct option E (119) cao; 9 - 7 = 2 parts is 34, so 1 part is 17 **B1**

**Answer: E) 119**

## Question 27

correct option C (36) cao; 11 - 9 = 2 parts is 8, so 1 part is 4 **B1**

**Answer: C) 36**

## Question 28

correct option B (£8.00) cao; 4 - 1 = 3 parts is 6, so 1 part is 2 **B1**

**Answer: B) £8.00**

## Question 29

correct option A (£72.00) cao; 9 - 4 = 5 parts is 40, so 1 part is 8 **B1**

**Answer: A) £72.00**

## Question 30

correct option D (42) cao **B1**

**Answer: D) 42. Difference = 7 - 2 = 5 parts, so 1 part = 30/5 = 6; larger barn = 7 x 6 = 42 bales. Working check: A) is the value of 1 part, B) is the smaller barn's total, C) repeats the given difference, E) is the combined total of both barns.**

## Question 31

correct option D (£84) cao **B1**

**Answer: D) £84**

## Question 32

correct option B (£28) cao **B1**

**Answer: B) £28**

## Question 33

correct option D (£20) cao; 6 - 5 = 1 parts is 4, so 1 part is 4 **B1**

**Answer: D) £20**

## Question 34

correct option E (44) cao; 7 - 4 = 3 parts is 12, so 1 part is 4 **B1**

**Answer: E) 44**

## Question 35

correct option C (24) cao; 3 - 1 = 2 parts is 12, so 1 part is 6 **B1**

**Answer: C) 24**

## Question 36

correct option D (2) cao; 5 - 1 = 4 parts is 8, so 1 part is 2 **B1**

**Answer: D) 2**

## Question 37

correct option C (£28) cao **B1**

**Answer: C) £28**

## Question 38

correct option D (£36) cao **B1**

**Answer: D) £36**

## Question 39

correct option B (£30) cao; 11 - 5 = 6 parts is 36, so 1 part is 6 **B1**

**Answer: B) £30**

## Question 40

correct option D (£81) cao **B1**

**Answer: D) £81. Difference = 9 - 5 = 4 parts, so 1 part = 36/4 = 9; the larger-sharing class raises 9 x 9 = £81. Working check: A) is the value of 1 part, B) repeats the given difference, C) is the other class's share, E) is the combined total raised by both classes.**

## Question 41

correct option E (£76) cao **B1**

**Answer: E) £76. Difference = 13 - 6 = 7 parts, so 1 part = 28/7 = 4; shares are 6 x 4 = £24 and 13 x 4 = £52, total 24 + 52 = £76. Working check: A) is the value of 1 part, B) is the smaller partner's payment alone, C) doubles the smaller partner's payment instead of finding the total, D) is the larger partner's payment alone.**

## Question 42

recognise largest - smallest = 9 - 2 = 7 parts **M1**

find 1 part = 63/7 = 9 **M1**

smallest share = 2 x 9 = £18 cao **A1**

**Answer: £18. Working check: largest - smallest = 9 - 2 = 7 parts, so 1 part = 63/7 = 9; smallest = 2 x 9 = £18.**

## Question 43

recognise most - fewest = 10 - 4 = 6 parts **M1**

find 1 part = 54/6 = 9 **M1**

calculate at least two of the four team totals using 1 part **M1**

calculate the remaining team totals correctly **M1**

total = 36 + 45 + 63 + 90 = £234 cao **A1**

**Answer: £234. Working check: most - fewest = 10 - 4 = 6 parts, so 1 part = 54/6 = 9. Teams raise 4x9=36, 5x9=45, 7x9=63, 10x9=90; total = 36+45+63+90 = 234.**

## Question 44

correct option A (21) cao; 7 - 5 = 2 parts is 6, so 1 part is 3 **B1**

**Answer: A) 21**

## Question 45

correct option E (14) cao; 7 - 4 = 3 parts is 6, so 1 part is 2 **B1**

**Answer: E) 14**

## Question 46

correct option A (£24.00) cao; 4 - 3 = 1 parts is 8, so 1 part is 8 **B1**

**Answer: A) £24.00**


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## Question 47

correct option D (50) cao **B1**

**Answer: D) 50 points. Difference = 4 parts so 1 part = 20/4 = 5; shares 15 and 35; total 50. | Working check: A/B/C) confusion between one share and difference; E) double counting.**

## Question 48

correct option B (£72) cao **B1**

**Answer: B) £72**

## Question 49

correct option B (6) cao **B1**

**Answer: B) 6**

## Question 50

correct option E (£44) cao **B1**

**Answer: E) £44**

## Question 51

correct option D (£6) cao **B1**

**Answer: D) £6**

## Question 52

correct option C (60) cao **B1**

**Answer: C) 60**

## Question 53

correct option A (54) cao; 4 - 3 = 1 parts is 18, so 1 part is 18 **B1**

**Answer: A) 54**

## Question 54

correct option C (64) cao; 7 - 1 = 6 parts is 48, so 1 part is 8 **B1**

**Answer: C) 64**

## Question 55

correct option E (£184.00) cao; 14 - 9 = 5 parts is 40, so 1 part is 8 **B1**

**Answer: E) £184.00**


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