2.80 Ratio Sharing when the Difference is Given: 2-hour Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A charity bake sale splits its profit between two classes in the ratio 3:7. The class with the larger share raises £20 more than the other class. How much does the larger-sharing class raise?

- ☐ A) £15
- ☐ B) £5
- ☐ C) £35
- ☐ D) £50
- ☐ E) £20

---

2 Ben and Fatima share some beads in the ratio 9:14. Fatima gets 20 beads more than Ben. How many beads are there altogether?

- ☐ A) 92
- ☐ B) 4
- ☐ C) 20
- ☐ D) 91
- ☐ E) 36

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3 Niamh and Megan share some money in the ratio 2:3. Megan gets £4 more than Niamh. How much does Niamh receive?

- ☐ A) £7.00
- ☐ B) £4.00
- ☐ C) £8.00
- ☐ D) £12.00
- ☐ E) £20.00

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4 A lottery syndicate splits a win between two members in the ratio 7:12. The member with the larger share receives £5 more than the other member. How much does the member with the smaller share receive?

- [ ] A) £7
- [ ] B) £5
- [ ] C) £1
- [ ] D) £19
- [ ] E) £12

---

5 Dylan and Kofi share some money in the ratio 7:12. Kofi gets £90 more than Dylan. How much money are there altogether?

- [ ] A) £18.00
- [ ] B) £126.00
- [ ] C) £343.00
- [ ] D) £342.00
- [ ] E) £216.00

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6 Noah and Ffion share some marbles in the ratio 1:2. Ffion gets 7 marbles more than Noah. How many marbles does Noah receive?

- [ ] A) 8
- [ ] B) 14
- [ ] C) 6
- [ ] D) 7
- [ ] E) 21

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7 Sam and Priya share sweets in the ratio 3:2. Sam has 35 more sweets than Priya. How many sweets does Sam have?

- [ ] A) 175
- [ ] B) 105
- [ ] C) 70
- [ ] D) 6
- [ ] E) 35

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8 Two allotment holders share the cost of seed and compost in the ratio 2:6. The one who pays more pays £8 more than the other. How much does the one who pays more actually pay?

- [ ] A) £12
- [ ] B) £8
- [ ] C) £4
- [ ] D) £16
- [ ] E) £2

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9 Chloe and Lily share some plants in the ratio 6:11. Lily gets 90 plants more than Chloe. How many plants does Chloe receive?

- [ ] A) 540
- [ ] B) 109
- [ ] C) 108
- [ ] D) 18
- [ ] E) 198

---

10 Two sisters share an inheritance in the ratio 4:6. The elder sister receives £2,100 more than the younger. Work out the smaller (younger) sister's share.

- [ ] A) £4200
- [ ] B) £10500
- [ ] C) £6300
- [ ] D) £2100
- [ ] E) £1050

---

11 Kofi and Ewan share some stickers in the ratio 6:11. Ewan gets 75 stickers more than Kofi. How many stickers does Ewan receive?

- [ ] A) 255
- [ ] B) 825
- [ ] C) 90
- [ ] D) 165
- [ ] E) 15

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12 A charity bake sale splits its profit between two classes in the ratio 4:9. The class with the larger share raises £20 more than the other class. How much does the larger-sharing class raise?

- [ ] A) £4
- [ ] B) £20
- [ ] C) £52
- [ ] D) £16
- [ ] E) £36

---

13 Tom and Sana share some raffle tickets in the ratio 7:9. Sana gets 20 raffle tickets more than Tom. How many raffle tickets are there altogether?

- [ ] A) 10
- [ ] B) 160
- [ ] C) 161
- [ ] D) 159
- [ ] E) 70

---

14 Two market stalls split their Saturday takings in the ratio 3:8. The stall with the larger takings earned £10 more than the other stall. How much did the smaller-earning stall take?

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

---

15 A prize fund is shared between a school choir and a school orchestra in the ratio 2:6. The orchestra receives £20 more than the choir. How much does the orchestra receive?

- [ ] A) £40
- [ ] B) £5
- [ ] C) £10
- [ ] D) £30
- [ ] E) £20

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16 Ravi and Kwame share some sweets in the ratio 3:7. Kwame gets 20 sweets more than Ravi. How many sweets are there altogether?

- [ ] A) 50
- [ ] B) 5
- [ ] C) 140
- [ ] D) 49
- [ ] E) 15

---

17 Two allotment holders share the cost of seed and compost in the ratio 2:6. The one who pays more pays £32 more than the other. How much does the one who pays more actually pay?

- [ ] A) £8
- [ ] B) £32
- [ ] C) £16
- [ ] D) £64
- [ ] E) £48

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18 A lottery syndicate splits a win between two members in the ratio 7:10. The member with the larger share receives £15 more than the other member. How much does the member with the smaller share receive?

- [ ] A) £50
- [ ] B) £85
- [ ] C) £5
- [ ] D) £35
- [ ] E) £15

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19 Anya and Rhys share some pencils in the ratio 5:6. Rhys gets 5 pencils more than Anya. How many pencils does Anya receive?

- [ ] A) 5
- [ ] B) 24
- [ ] C) 25
- [ ] D) 30
- [ ] E) 26

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20 Sam and Priya share sweets in the ratio 4:3. Sam has 35 more sweets than Priya. How many sweets does Sam have?

- [ ] A) 35
- [ ] B) 105
- [ ] C) 12
- [ ] D) 245
- [ ] E) 140

---

21 Two children split apples in the ratio 5:6. The larger child has 9 more apples than the smaller. How many apples are there in total?

- [ ] A) 54
- [ ] B) 99
- [ ] C) 30
- [ ] D) 45
- [ ] E) 9

---

22 Jack and Tom share some plants in the ratio 3:8. Tom gets 40 plants more than Jack. How many plants are there altogether?

- [ ] A) 24
- [ ] B) 88
- [ ] C) 8
- [ ] D) 87
- [ ] E) 64

---

23 Two sisters share an inheritance in the ratio 5:8. The elder sister receives £2,400 more than the younger. Work out the smaller (younger) sister's share.

- [ ] A) £800
- [ ] B) £2400
- [ ] C) £4000
- [ ] D) £6400
- [ ] E) £10400

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24 Anya and Ethan share some money in the ratio 4:9. Ethan gets £15 more than Anya. How much does Ethan receive?

- [ ] A) £27.00
- [ ] B) £3.00
- [ ] C) £28.00
- [ ] D) £15.00
- [ ] E) £12.00

---

25 Two Year 6 classes, 6R and 6S, collect recycling tokens for a class competition in the ratio 3:5. Class 6S collects 6 more tokens than Class 6R. How many tokens do the two classes collect altogether?

- [ ] A) 6
- [ ] B) 15
- [ ] C) 9
- [ ] D) 12
- [ ] E) 24

---

26 Rhys and Kofi share some pencils in the ratio 4:5. Kofi gets 7 pencils more than Rhys. How many pencils are there altogether?

- [ ] A) 64
- [ ] B) 7
- [ ] C) 63
- [ ] D) 35
- [ ] E) 28

---

27 Declan and Chloe share some money in the ratio 5:9. Chloe gets £12 more than Declan. How much money are there altogether?

- [ ] A) £3.00
- [ ] B) £15.00
- [ ] C) £27.00
- [ ] D) £12.00
- [ ] E) £42.00

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28 A farmer stores hay bales in two barns in the ratio 3:7. The larger barn holds 36 more bales than the smaller barn. How many bales does the larger barn hold?

- [ ] A) 63
- [ ] B) 90
- [ ] C) 36
- [ ] D) 9
- [ ] E) 27

---

29 Esme and Niamh share some stamps in the ratio 4:7. Niamh gets 21 stamps more than Esme. How many stamps does Esme receive?

- [ ] A) 49
- [ ] B) 84
- [ ] C) 28
- [ ] D) 77
- [ ] E) 7

---

30 Zainab and Esme share some pencils in the ratio 1:5. Esme gets 20 pencils more than Zainab. How many pencils does Zainab receive?

- [ ] A) 25
- [ ] B) 20
- [ ] C) 4
- [ ] D) 5
- [ ] E) 30

---

31 Sam and Priya share sweets in the ratio 4:3. Sam has 15 more sweets than Priya. How many sweets does Sam have?

- [ ] A) 12
- [ ] B) 105
- [ ] C) 60
- [ ] D) 15
- [ ] E) 45

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32 Two market stalls split their Saturday takings in the ratio 5:6. The stall with the larger takings earned £14 more than the other stall. How much did the smaller-earning stall take?

- [ ] A) £14
- [ ] B) £35
- [ ] C) £70
- [ ] D) £84
- [ ] E) £154

---

33 A raffle prize is split between the first and second ticket drawn in the ratio 4:7. The second ticket wins £21 more than the first. What is the total value of the prize?

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

---

34 Ffion and Ben share some money in the ratio 5:9. Ben gets £8 more than Ffion. How much does Ffion receive?

- [ ] A) £40
- [ ] B) £10
- [ ] C) £2
- [ ] D) £28
- [ ] E) £18

---

35 Two cousins share a birthday gift of money from their grandparents in the ratio 2:7. The cousin with the larger share receives £60 more than the other cousin. How much does the cousin with the smaller share receive?

- [ ] A) £60
- [ ] B) £84
- [ ] C) £12
- [ ] D) £108
- [ ] E) £24

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36 Dylan and Jack share some football cards in the ratio 1:5. Jack gets 16 football cards more than Dylan. How many football cards does Dylan receive?

- [ ] A) 3
- [ ] B) 5
- [ ] C) 20
- [ ] D) 4
- [ ] E) 24

---

37 A charity divides a sum in the ratio 2:7. The difference between the shares is £30. What is the total amount given out?

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

---

38 Ewan and Oliver share some money in the ratio 3:4. Oliver gets £4 more than Ewan. How much money are there altogether?

- [ ] A) £28.00
- [ ] B) £4.00
- [ ] C) £27.00
- [ ] D) £12.00
- [ ] E) £16.00

---

39 A charity divides a sum in the ratio 2:7. The difference between the shares is £10. What is the total amount given out?

- [ ] A) £14
- [ ] B) £18
- [ ] C) £4
- [ ] D) £10
- [ ] E) £2

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40 Two cousins share a birthday gift of money from their grandparents in the ratio 2:5. The cousin with the larger share receives £60 more than the other cousin. How much does the cousin with the smaller share receive?

- ☐ A) £140
- ☐ B) £40
- ☐ C) £20
- ☐ D) £60
- ☐ E) £100

---

41 Imogen and Oliver share some shells in the ratio 4:7. Oliver gets 9 shells more than Imogen. How many shells does Oliver receive?

- ☐ A) 33
- ☐ B) 63
- ☐ C) 3
- ☐ D) 21
- ☐ E) 12

---

42 A market trader splits the cost of a delivery van between two partners in the ratio 5:12. The partner who pays more pays £28 more than the other. What is the total cost of the delivery van?

- ☐ A) £28
- ☐ B) £4
- ☐ C) £20
- ☐ D) £48
- ☐ E) £68

---

43 Two friends, Kwame and Erin, share a bag of conkers in the ratio 3:5. Erin has 12 more conkers than Kwame. How many conkers do they have altogether?

- ☐ A) 48
- ☐ B) 30
- ☐ C) 6
- ☐ D) 12
- ☐ E) 18

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44 Aisha and Yusuf share some beads in the ratio 4:9. Yusuf gets 45 beads more than Aisha. How many beads does Yusuf receive?

- [ ] A) 9
- [ ] B) 405
- [ ] C) 81
- [ ] D) 36
- [ ] E) 117

---

45 A raffle prize is split between the first and second ticket drawn in the ratio 2:8. The second ticket wins £12 more than the first. What is the total value of the prize?

- [ ] A) £20
- [ ] B) £16
- [ ] C) £12
- [ ] D) £4
- [ ] E) £2

---

46 A farmer stores hay bales in two barns in the ratio 2:6. The larger barn holds 12 more bales than the smaller barn. How many bales does the larger barn hold?

- [ ] A) 12
- [ ] B) 24
- [ ] C) 6
- [ ] D) 3
- [ ] E) 18

---

47 Esme and Arjun share some beads in the ratio 4:7. Arjun gets 15 beads more than Esme. How many beads are there altogether?

- [ ] A) 5
- [ ] B) 55
- [ ] C) 54
- [ ] D) 35
- [ ] E) 20

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48 Two market stalls split their Saturday takings in the ratio 4:6. The stall with the larger takings earned £10 more than the other stall. How much did the smaller-earning stall take?

- [ ] A) £50
- [ ] B) £30
- [ ] C) £5
- [ ] D) £20
- [ ] E) £10

---

49 Two children, Priya and Noah, share a box of beads in the ratio 4:11. Noah has 21 more beads than Priya. How many beads does Priya have?

- [ ] A) 3
- [ ] B) 12
- [ ] C) 21
- [ ] D) 33
- [ ] E) 45

---

50 Tariq and Esme share some shells in the ratio 1:5. Esme gets 12 shells more than Tariq. How many shells does Esme receive?

- [ ] A) 12
- [ ] B) 16
- [ ] C) 3
- [ ] D) 18
- [ ] E) 15

---

51 A group divides a donation in the ratio 2:9. The larger share is £21 more than the smaller. What is the smaller share?

- [ ] A) £6
- [ ] B) £21
- [ ] C) £27
- [ ] D) £3
- [ ] E) £33

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52 Isla and Maya share some plants in the ratio 1:6. Maya gets 30 plants more than Isla. How many plants does Isla receive?

- [ ] A) 36
- [ ] B) 6
- [ ] C) 42
- [ ] D) 30
- [ ] E) 7

---

53 Poppy and Maya share some money in the ratio 3:4. Maya gets £9 more than Poppy. How much money are there altogether?

- [ ] A) £62.00
- [ ] B) £63.00
- [ ] C) £36.00
- [ ] D) £27.00
- [ ] E) £9.00

---

54 Two colleagues share commission in the ratio 4:9. The larger gets £15 more than the smaller. How much does the larger colleague receive?

- [ ] A) £27
- [ ] B) £3
- [ ] C) £12
- [ ] D) £39
- [ ] E) £15

---

55 Sienna and Zainab share some badges in the ratio 4:9. Zainab gets 15 badges more than Sienna. How many badges does Sienna receive?

- [ ] A) 3
- [ ] B) 27
- [ ] C) 11
- [ ] D) 15
- [ ] E) 12

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56 Tom and Oliver share some shells in the ratio 2:7. Oliver gets 35 shells more than Tom. How many shells does Tom receive?

- [ ] A) 7
- [ ] B) 35
- [ ] C) 14
- [ ] D) 49
- [ ] E) 13

---

57 Two Year 6 classes, 6R and 6S, collect recycling tokens for a class competition in the ratio 4:5. Class 6S collects 6 more tokens than Class 6R. How many tokens do the two classes collect altogether?

- [ ] A) 18
- [ ] B) 24
- [ ] C) 6
- [ ] D) 54
- [ ] E) 30

---

58 A raffle prize is split between the first and second ticket drawn in the ratio 3:10. The second ticket wins £42 more than the first. What is the total value of the prize?

- [ ] A) £6
- [ ] B) £18
- [ ] C) £36
- [ ] D) £60
- [ ] E) £78

---

59 A market trader splits the cost of a delivery van between two partners in the ratio 3:10. The partner who pays more pays £7 more than the other. What is the total cost of the delivery van?

- [ ] A) £1
- [ ] B) £10
- [ ] C) £13
- [ ] D) £7
- [ ] E) £3

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60 Hamza and Yusuf share some football cards in the ratio 1:4. Yusuf gets 15 football cards more than Hamza. How many football cards does Yusuf receive?

- [ ] A) 5
- [ ] B) 25
- [ ] C) 15
- [ ] D) 19
- [ ] E) 20

---

61 Two youth sports clubs share a sponsorship payment in the ratio 8:12. The larger club receives £16 more than the smaller club. Work out how much the smaller club receives.

- [ ] A) £32
- [ ] B) £80
- [ ] C) £48
- [ ] D) £4
- [ ] E) £16

---

62 Zainab and Ravi share some plants in the ratio 5:11. Ravi gets 48 plants more than Zainab. How many plants does Zainab receive?

- [ ] A) 128
- [ ] B) 40
- [ ] C) 41
- [ ] D) 8
- [ ] E) 88

---

63 A raffle prize is split between the first and second ticket drawn in the ratio 4:10. The second ticket wins £42 more than the first. What is the total value of the prize?

- [ ] A) £70
- [ ] B) £7
- [ ] C) £42
- [ ] D) £28
- [ ] E) £98

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64 Tariq and Grace share some stamps in the ratio 5:9. Grace gets 20 stamps more than Tariq. How many stamps does Grace receive?

- [ ] A) 25
- [ ] B) 70
- [ ] C) 45
- [ ] D) 5
- [ ] E) 44

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65 Two window cleaners split a block of jobs by pay in the ratio 7:9. 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) £18
- [ ] C) £63
- [ ] D) £81
- [ ] E) £144

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66 Two friends, Kwame and Erin, share a bag of conkers in the ratio 2:5. Erin has 27 more conkers than Kwame. How many conkers do they have altogether?

- [ ] A) 9
- [ ] B) 18
- [ ] C) 36
- [ ] D) 45
- [ ] E) 63

---

67 A lottery syndicate splits a win between two members in the ratio 8:9. The member with the larger share receives £15 more than the other member. How much does the member with the smaller share receive?

- [ ] A) £15
- [ ] B) £105
- [ ] C) £120
- [ ] D) £135
- [ ] E) £255

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68 Two allotment holders share the cost of seed and compost in the ratio 3:7. The one who pays more pays £32 more than the other. How much does the one who pays more actually pay?

- [ ] A) £8
- [ ] B) £24
- [ ] C) £32
- [ ] D) £56
- [ ] E) £80

---

69 Two cousins share a birthday gift of money from their grandparents in the ratio 4:7. The cousin with the larger share receives £45 more than the other cousin. How much does the cousin with the smaller share receive?

- [ ] A) £15
- [ ] B) £45
- [ ] C) £60
- [ ] D) £105
- [ ] E) £165

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70 Two youth sports clubs share a sponsorship payment in the ratio 9:13. The larger club receives £32 more than the smaller club. Work out how much the smaller club receives.

(2)

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71 Two office teams share the cost of new equipment in the ratio 5:12, based on how much each team uses it. The team that pays more pays £49 more than the team that pays less. Work out how much the team that pays more pays.

(2)

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72 Three market stalls share a delivery of fruit boxes in the ratio 3:4:10. The stall with the largest share receives 56 more boxes than the stall with the smallest share. Work out how many boxes the stall with the largest share receives.

(3)

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73 Four relay teams share a box of medals in the ratio 2:3:5:8. The team with the most medals receives 54 more medals than the team with the fewest. Work out how many medals the team with 3 parts of the ratio receives.

(4)

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74 Three volunteers share a fundraising total in the ratio 2:3:4. The COMBINED amount raised by the two volunteers with the smaller shares is £15 more than the amount raised by the volunteer with the largest share. Work out how much each volunteer raised.

(6)

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75 Two friends, Kwame and Erin, share a bag of conkers in the ratio 2:6. Erin has 12 more conkers than Kwame. How many conkers do they have altogether?

- [ ] A) 24
- [ ] B) 18
- [ ] C) 3
- [ ] D) 12
- [ ] E) 6

---

76 A prize fund is shared between a school choir and a school orchestra in the ratio 3:5. The orchestra receives £20 more than the choir. How much does the orchestra receive?

- [ ] A) £80
- [ ] B) £30
- [ ] C) £10
- [ ] D) £20
- [ ] E) £50

---

77 Lily and Oliver share some money in the ratio 6:7. Oliver gets £10 more than Lily. How much money are there altogether?

- [ ] A) £130
- [ ] B) £60
- [ ] C) £131
- [ ] D) £10
- [ ] E) £129

---

78 Sam and Priya share sweets in the ratio 4:3. Sam has 30 more sweets than Priya. How many sweets does Sam have?

- [ ] A) 120
- [ ] B) 90
- [ ] C) 210
- [ ] D) 30
- [ ] E) 12

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79 Two friends, Kwame and Erin, share a bag of conkers in the ratio 2:5. Erin has 15 more conkers than Kwame. How many conkers do they have altogether?

- [ ] A) 35
- [ ] B) 10
- [ ] C) 25
- [ ] D) 5
- [ ] E) 15

---

80 Aisha and Dylan share some money in the ratio 1:7. Dylan gets £36 more than Aisha. How much does Dylan receive?

- [ ] A) £42.00
- [ ] B) £36.00
- [ ] C) £48.00
- [ ] D) £6.00
- [ ] E) £43.00

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81 Two children, Priya and Noah, share a box of beads in the ratio 3:10. Noah has 21 more beads than Priya. How many beads does Priya have?

- [ ] A) 21
- [ ] B) 9
- [ ] C) 39
- [ ] D) 30
- [ ] E) 3

---

82 Two children split apples in the ratio 4:5. The larger child has 12 more apples than the smaller. How many apples are there in total?

- [ ] A) 48
- [ ] B) 108
- [ ] C) 20
- [ ] D) 12
- [ ] E) 60

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83 Aisha and Jack share some shells in the ratio 5:11. Jack gets 96 shells more than Aisha. How many shells does Jack receive?

- [ ] A) 1,056
- [ ] B) 16
- [ ] C) 80
- [ ] D) 96
- [ ] E) 176

---

84 A farmer stores hay bales in two barns in the ratio 2:8. The larger barn holds 30 more bales than the smaller barn. How many bales does the larger barn hold?

- [ ] A) 5
- [ ] B) 10
- [ ] C) 30
- [ ] D) 50
- [ ] E) 40

---

85 Niamh and Ffion share some money in the ratio 4:5. Ffion gets £3 more than Niamh. How much does Niamh receive?

- [ ] A) £11.00
- [ ] B) £12.00
- [ ] C) £3.00
- [ ] D) £13.00
- [ ] E) £15.00

---

86 Two colleagues share commission in the ratio 3:9. The larger gets £30 more than the smaller. How much does the larger colleague receive?

- [ ] A) £45
- [ ] B) £15
- [ ] C) £5
- [ ] D) £30
- [ ] E) £60

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87 Tom and Jack share some money in the ratio 7:12. Jack gets £70 more than Tom. How much does Tom receive?

- [ ] A) £266.00
- [ ] B) £98.00
- [ ] C) £168.00
- [ ] D) £97.00
- [ ] E) £14.00

---

88 A lottery syndicate splits a win between two members in the ratio 7:12. The member with the larger share receives £10 more than the other member. How much does the member with the smaller share receive?

- [ ] A) £2
- [ ] B) £38
- [ ] C) £24
- [ ] D) £10
- [ ] E) £14

---

89 Tariq and Harry share some badges in the ratio 5:8. Harry gets 6 badges more than Tariq. How many badges does Harry receive?

- [ ] A) 2
- [ ] B) 6
- [ ] C) 48
- [ ] D) 16
- [ ] E) 10

---

90 A market trader splits the cost of a delivery van between two partners in the ratio 3:10. The partner who pays more pays £28 more than the other. What is the total cost of the delivery van?

- [ ] A) £52
- [ ] B) £28
- [ ] C) £40
- [ ] D) £4
- [ ] E) £12

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91 Aisha and Anya share some stickers in the ratio 6:11. Anya gets 55 stickers more than Aisha. How many stickers does Aisha receive?

- [ ] A) 121
- [ ] B) 67
- [ ] C) 66
- [ ] D) 55
- [ ] E) 11

---

92 Declan and Callum share some raffle tickets in the ratio 1:3. Callum gets 8 raffle tickets more than Declan. How many raffle tickets does Callum receive?

- [ ] A) 16
- [ ] B) 13
- [ ] C) 8
- [ ] D) 4
- [ ] E) 12

---

93 Two colleagues share commission in the ratio 4:9. The larger gets £20 more than the smaller. How much does the larger colleague receive?

- [ ] A) £20
- [ ] B) £52
- [ ] C) £16
- [ ] D) £36
- [ ] E) £4

---

94 Megan and Ethan share some money in the ratio 4:7. Ethan gets £6 more than Megan. How much does Megan receive?

- [ ] A) £8.00
- [ ] B) £9.00
- [ ] C) £2.00
- [ ] D) £14.00
- [ ] E) £7.00

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95 Yusuf and Ewan share some raffle tickets in the ratio 7:10. Ewan gets 54 raffle tickets more than Yusuf. How many raffle tickets does Yusuf receive?

- [ ] A) 18
- [ ] B) 180
- [ ] C) 125
- [ ] D) 54
- [ ] E) 126

---

96 Two children, Priya and Noah, share a box of beads in the ratio 4:9. Noah has 10 more beads than Priya. How many beads does Priya have?

- [ ] A) 10
- [ ] B) 26
- [ ] C) 18
- [ ] D) 8
- [ ] E) 2

---

97 Ravi and Kwame share some football cards in the ratio 2:5. Kwame gets 15 football cards more than Ravi. How many football cards does Kwame receive?

- [ ] A) 25
- [ ] B) 5
- [ ] C) 75
- [ ] D) 10
- [ ] E) 35

---

98 A group divides a donation in the ratio 2:9. The larger share is £35 more than the smaller. What is the smaller share?

- [ ] A) £55
- [ ] B) £5
- [ ] C) £10
- [ ] D) £45
- [ ] E) £35

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99 Lily and Maya share some money in the ratio 8:9. Maya gets £17 more than Lily. How much does Lily receive?

- [ ] A) £17.00
- [ ] B) £137.00
- [ ] C) £153.00
- [ ] D) £136.00
- [ ] E) £135.00

---

100 A prize fund is shared between a school choir and a school orchestra in the ratio 2:7. The orchestra receives £40 more than the choir. How much does the orchestra receive?

- [ ] A) £56
- [ ] B) £40
- [ ] C) £8
- [ ] D) £16
- [ ] E) £72

---

101 Arjun and Anya share some raffle tickets in the ratio 5:8. Anya gets 6 raffle tickets more than Arjun. How many raffle tickets does Arjun receive?

- [ ] A) 2
- [ ] B) 10
- [ ] C) 16
- [ ] D) 11
- [ ] E) 30

---

102 Sana and Noah share some money in the ratio 4:7. Noah gets £45 more than Sana. How much does Noah receive?

- [ ] A) £45.00
- [ ] B) £105.00
- [ ] C) £60.00
- [ ] D) £15.00
- [ ] E) £104.00

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103 A market trader splits the cost of a delivery van between two partners in the ratio 2:9. The partner who pays more pays £21 more than the other. What is the total cost of the delivery van?

- [ ] A) £6
- [ ] B) £21
- [ ] C) £27
- [ ] D) £3
- [ ] E) £33

---

104 Isla and Sienna share some money in the ratio 4:5. Sienna gets £5 more than Isla. How much does Isla receive?

- [ ] A) £20
- [ ] B) £19
- [ ] C) £45
- [ ] D) £25
- [ ] E) £5

---

105 Tariq and Kwame share some raffle tickets in the ratio 6:7. Kwame gets 13 raffle tickets more than Tariq. How many raffle tickets are there altogether?

- [ ] A) 13
- [ ] B) 91
- [ ] C) 169
- [ ] D) 78
- [ ] E) 168

---

106 Two children, Priya and Noah, share a box of beads in the ratio 4:11. Noah has 28 more beads than Priya. How many beads does Priya have?

- [ ] A) 60
- [ ] B) 44
- [ ] C) 28
- [ ] D) 16
- [ ] E) 4

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107 Dylan and Niamh share some stickers in the ratio 4:7. Niamh gets 15 stickers more than Dylan. How many stickers does Dylan receive?

- [ ] A) 20
- [ ] B) 35
- [ ] C) 5
- [ ] D) 15
- [ ] E) 60

---

108 Tom and Isla share some shells in the ratio 6:7. Isla gets 8 shells more than Tom. How many shells does Isla receive?

- [ ] A) 48
- [ ] B) 56
- [ ] C) 8
- [ ] D) 57
- [ ] E) 55

---

109 A market trader splits the cost of a delivery van between two partners in the ratio 2:9. The partner who pays more pays £7 more than the other. What is the total cost of the delivery van?

- [ ] A) £9
- [ ] B) £2
- [ ] C) £1
- [ ] D) £7
- [ ] E) £11

---

110 Leo and Anya share some pencils in the ratio 1:6. Anya gets 25 pencils more than Leo. How many pencils are there altogether?

- [ ] A) 150
- [ ] B) 36
- [ ] C) 5
- [ ] D) 30
- [ ] E) 35

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111 Two children split apples in the ratio 3:4. The larger child has 9 more apples than the smaller. How many apples are there in total?

- [ ] A) 9
- [ ] B) 27
- [ ] C) 36
- [ ] D) 63
- [ ] E) 12

---

112 Ethan and Yusuf share some money in the ratio 2:3. Yusuf gets £2 more than Ethan. How much does Yusuf receive?

- [ ] A) £7.00
- [ ] B) £6.00
- [ ] C) £10.00
- [ ] D) £4.00
- [ ] E) £2.00

---

113 Two youth sports clubs share a sponsorship payment in the ratio 8:11. The larger club receives £24 more than the smaller club. Work out how much the smaller club receives.

- [ ] A) £152
- [ ] B) £8
- [ ] C) £64
- [ ] D) £88
- [ ] E) £24

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114 Three children share a birthday cake in the ratio 2:3:5. The largest piece is 30 grams more than the smallest. What is the total mass of the cake in grams?

- ☐ A) 100 g
- ☐ B) 200 g
- ☐ C) 50 g
- ☐ D) 150 g
- ☐ E) 1000 g

---

115 A charity divides a sum in the ratio 3:7. The difference between the shares is £20. What is the total amount given out?

- ☐ A) £35
- ☐ B) £50
- ☐ C) £5
- ☐ D) £20
- ☐ E) £15

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Mark scheme · 2.80 Ratio Sharing when the Difference is Given: 2-hour Pack

Question 1

correct option C (£35) cao **B1**

Answer: C) £35

Question 2

correct option A (92) cao; 14 - 9 = 5 parts is 20, so 1 part is 4 **B1**

Answer: A) 92

Question 3

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

Answer: C) £8.00

Question 4

correct option A (£7) cao **B1**

Answer: A) £7

Question 5

correct option D (£342.00) cao; 12 - 7 = 5 parts is 90, so 1 part is 18 **B1**

Answer: D) £342.00

Question 6

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

Answer: D) 7

Question 7

correct option B (105) cao **B1**

Answer: B) 105

Question 8

correct option A (£12) cao **B1**

Answer: A) £12

Question 9

correct option C (108) cao; 11 - 6 = 5 parts is 90, so 1 part is 18 **B1**

Answer: C) 108

Question 10

correct option A (£4200) cao **B1**

Answer: A) £4200

Question 11

correct option D (165) cao; 11 - 6 = 5 parts is 75, so 1 part is 15 **B1**

Answer: D) 165

Question 12

correct option E (£36) cao **B1**

Answer: E) £36

Question 13

correct option B (160) cao; 9 - 7 = 2 parts is 20, so 1 part is 10 **B1**

Answer: B) 160

Question 14

correct option C (£6) cao **B1**

Answer: C) £6

Question 15

correct option D (£30) cao **B1**

Answer: D) £30

Question 16

correct option A (50) cao; 7 - 3 = 4 parts is 20, so 1 part is 5 **B1**

Answer: A) 50

Question 17

correct option E (£48) cao **B1**

Answer: E) £48

Question 18

correct option D (£35) cao **B1**

Answer: D) £35

Question 19

correct option C (25) cao; 6 - 5 = 1 parts is 5, so 1 part is 5 **B1**

Answer: C) 25

Question 20

correct option E (140) cao **B1**

Answer: E) 140

Question 21

correct option B (99) cao **B1**

Answer: B) 99

Question 22

correct option B (88) cao; 8 - 3 = 5 parts is 40, so 1 part is 8 **B1**

Answer: B) 88

Question 23

correct option C (£4000) cao **B1**

Answer: C) £4000

Question 24

correct option A (£27.00) cao; 9 - 4 = 5 parts is 15, so 1 part is 3 **B1**

Answer: A) £27.00

Question 25

correct option E (24) cao **B1**

Answer: E) 24

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Question 26

correct option C (63) cao; 5 - 4 = 1 parts is 7, so 1 part is 7 **B1**

Answer: C) 63

Question 27

correct option E (£42.00) cao; 9 - 5 = 4 parts is 12, so 1 part is 3 **B1**

Answer: E) £42.00

Question 28

correct option A (63) cao **B1**

Answer: A) 63

Question 29

correct option C (28) cao; 7 - 4 = 3 parts is 21, so 1 part is 7 **B1**

Answer: C) 28

Question 30

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

Answer: D) 5

Question 31

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

Answer: C) 60

Question 32

correct option C (£70) cao **B1**

Answer: C) £70. Difference = 6 - 5 = 1 part, so 1 part = £14; smaller stall = 5 x 14 = £70. Working check: A) is the value of 1 part, B) wrongly treats the gap between the ratio numbers as 2 parts instead of 1, D) is the larger stall's takings, E) is the combined takings of both stalls.

Question 33

correct option A (£77) cao **B1**

Answer: A) £77

Question 34

correct option B (£10) cao; 9 - 5 = 4 parts is 8, so 1 part is 2 **B1**

Answer: B) £10

Question 35

correct option E (£24) cao **B1**

Answer: E) £24

Question 36

correct option D (4) cao; 5 - 1 = 4 parts is 16, so 1 part is 4 **B1**

Answer: D) 4

Question 37

correct option C (£54) cao **B1**

Answer: C) £54

Question 38

correct option A (£28.00) cao; 4 - 3 = 1 parts is 4, so 1 part is 4 **B1**

Answer: A) £28.00

Question 39

correct option B (£18) cao **B1**

Answer: B) £18

Question 40

correct option B (£40) cao **B1**

Answer: B) £40

Question 41

correct option D (21) cao; 7 - 4 = 3 parts is 9, so 1 part is 3 **B1**

Answer: D) 21

Question 42

correct option E (£68) cao **B1**

Answer: E) £68

Question 43

correct option A (48) cao **B1**

Answer: A) 48

Question 44

correct option C (81) cao; 9 - 4 = 5 parts is 45, so 1 part is 9 **B1**

Answer: C) 81

Question 45

correct option A (£20) cao **B1**

Answer: A) £20

Question 46

correct option E (18) cao **B1**

Answer: E) 18

Question 47

correct option B (55) cao; 7 - 4 = 3 parts is 15, so 1 part is 5 **B1**

Answer: B) 55

Question 48

correct option D (£20) cao **B1**

Answer: D) £20

Question 49

correct option B (12) cao **B1**

Answer: B) 12. Difference = 11 - 4 = 7 parts, so 1 part = 21/7 = 3; Priya has 4 x 3 = 12 beads. Working check: A) is the value of 1 part, C) repeats the given difference, D) is Noah's total, E) is the combined total of both children's beads.

Question 50

correct option E (15) cao; 5 - 1 = 4 parts is 12, so 1 part is 3 **B1**

Answer: E) 15

Question 51

correct option A (£6) cao **B1**

Answer: A) £6

Question 52

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

Answer: B) 6

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Question 53

correct option B (£63.00) cao; 4 - 3 = 1 parts is 9, so 1 part is 9 **B1**

Answer: B) £63.00

Question 54

correct option A (£27) cao **B1**

Answer: A) £27

Question 55

correct option E (12) cao; 9 - 4 = 5 parts is 15, so 1 part is 3 **B1**

Answer: E) 12

Question 56

correct option C (14) cao; 7 - 2 = 5 parts is 35, so 1 part is 7 **B1**

Answer: C) 14

Question 57

correct option D (54) cao **B1**

Answer: D) 54

Question 58

correct option E (£78) cao **B1**

Answer: E) £78. Difference = 10 - 3 = 7 parts, so 1 part = 42/7 = 6; shares are 3 x 6 = £18 and 10 x 6 = £60, total 18 + 60 = £78. Working check: A) is the value of 1 part, B) is the first ticket's share alone, C) doubles the first ticket's share instead of finding the total, D) is the second ticket's share alone.

Question 59

correct option C (£13) cao **B1**

Answer: C) £13

Question 60

correct option E (20) cao; 4 - 1 = 3 parts is 15, so 1 part is 5 **B1**

Answer: E) 20

Question 61

correct option A (£32) cao **B1**

Answer: A) £32

Question 62

correct option B (40) cao; 11 - 5 = 6 parts is 48, so 1 part is 8 **B1**

Answer: B) 40

Question 63

correct option E (£98) cao **B1**

Answer: E) £98

Question 64

correct option C (45) cao; 9 - 5 = 4 parts is 20, so 1 part is 5 **B1**

Answer: C) 45

Question 65

correct option C (£63) cao **B1**

Answer: C) £63. Difference = 9 - 7 = 2 parts, so 1 part = 18/2 = 9; the cleaner with fewer jobs is paid 7 x 9 = £63. Working check: A) is the value of 1 part, B) repeats the given difference, D) is the other cleaner's pay, E) is the combined pay of both cleaners.

Question 66

correct option E (63) cao **B1**

Answer: E) 63. Difference = 5 - 2 = 3 parts, so 1 part = 27/3 = 9; shares are 2 x 9 = 18 and 5 x 9 = 45, total 18 + 45 = 63 conkers. Working check: A) is the value of 1 part, B) is Kwame's total alone, C) doubles Kwame's total instead of finding the combined total, D) is Erin's total alone.

Question 67

correct option C (£120) cao **B1**

Answer: C) £120. Difference = 9 - 8 = 1 part, so 1 part = £15; the member with the smaller share receives 8 x 15 = £120. Working check: A) is the value of 1 part, B) wrongly subtracts the £15 a second time from the correct smaller share (120 - 15), D) is the larger member's share, E) is the combined total of both shares.

Question 68

correct option D (£56) cao **B1**

Answer: D) £56. Difference = 7 - 3 = 4 parts, so 1 part = 32/4 = 8; the one who pays more pays 7 x 8 = £56. Working check: A) is the value of 1 part, B) is the other holder's payment, C) repeats the given difference, E) is the combined cost paid by both holders.

Question 69

correct option C (£60) cao **B1**

Answer: C) £60. Difference = 7 - 4 = 3 parts, so 1 part = 45/3 = 15; the cousin with the smaller share receives 4 x 15 = £60. Working check: A) is the value of 1 part, B) repeats the given difference, D) is the other cousin's share, E) is the combined total received by both cousins.

Question 70

find 1 part = 32/(13-9) = 8 **M1**

smaller club = 9 x 8 = £72 cao **A1**

Answer: £72 (smaller club). Working check: difference = 13 - 9 = 4 parts, so 1 part = 32/4 = 8; smaller club = 9 x 8 = £72.

Question 71

find 1 part = 49/(12-5) = 7 **M1**

larger payment = 12 x 7 = £84 cao **A1**

Answer: £84. Working check: difference = 12 - 5 = 7 parts, so 1 part = 49/7 = 7; larger payment = 12 x 7 = £84.

Question 72

recognise largest - smallest = 10 - 3 = 7 parts **M1**

find 1 part = 56/7 = 8 **M1**

largest share = 10 x 8 = 80 cao **A1**

Answer: 80 boxes. Working check: largest - smallest = 10 - 3 = 7 parts, so 1 part = 56/7 = 8; largest = 10 x 8 = 80.

Question 73

recognise most - fewest = 8 - 2 = 6 parts **M1**

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

identify the required share uses 3 parts **M1**

3 x 9 = 27 cao **A1**

Answer: 27 medals. Working check: most - fewest = 8 - 2 = 6 parts, so 1 part = 54/6 = 9; the team with 3 parts receives 3 x 9 = 27.

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Question 74

recognise (2 parts + 3 parts) - 4 parts = 1 part **M1**

find 1 part = £15 **M1**

calculate the first volunteer's share = 2 x 15 = £30 **M1**

calculate the second volunteer's share = 3 x 15 = £45 **M1**

calculate the third volunteer's share = 4 x 15 = £60 **M1**

full correct set: £30, £45, £60 cao **A1**

Answer: £30, £45 and £60. Working check: combined smaller shares (2+3=5 parts) exceed the largest share (4 parts) by 1 part, so 1 part = £15; shares are 2x15=30, 3x15=45, 4x15=60. Check: 30+45=75, which is 15 more than 60.

Question 75

correct option A (24) cao **B1**

Answer: A) 24

Question 76

correct option E (£50) cao **B1**

Answer: E) £50

Question 77

correct option A (£130) cao; 7 - 6 = 1 parts is 10, so 1 part is 10 **B1**

Answer: A) £130

Question 78

correct option A (120) cao **B1**

Answer: A) 120

Question 79

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

Answer: A) 35

Question 80

correct option A (£42.00) cao; 7 - 1 = 6 parts is 36, so 1 part is 6 **B1**

Answer: A) £42.00

Question 81

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

Answer: B) 9

Question 82

correct option B (108) cao **B1**

Answer: B) 108

Question 83

correct option E (176) cao; 11 - 5 = 6 parts is 96, so 1 part is 16 **B1**

Answer: E) 176

Question 84

correct option E (40) cao **B1**

Answer: E) 40

Question 85

correct option B (£12.00) cao; 5 - 4 = 1 parts is 3, so 1 part is 3 **B1**

Answer: B) £12.00

Question 86

correct option A (£45) cao **B1**

Answer: A) £45

Question 87

correct option B (£98.00) cao; 12 - 7 = 5 parts is 70, so 1 part is 14 **B1**

Answer: B) £98.00

Question 88

correct option E (£14) cao **B1**

Answer: E) £14

Question 89

correct option D (16) cao; 8 - 5 = 3 parts is 6, so 1 part is 2 **B1**

Answer: D) 16

Question 90

correct option A (£52) cao **B1**

Answer: A) £52

Question 91

correct option C (66) cao; 11 - 6 = 5 parts is 55, so 1 part is 11 **B1**

Answer: C) 66

Question 92

correct option E (12) cao; 3 - 1 = 2 parts is 8, so 1 part is 4 **B1**

Answer: E) 12

Question 93

correct option D (£36) cao **B1**

Answer: D) £36

Question 94

correct option A (£8.00) cao; 7 - 4 = 3 parts is 6, so 1 part is 2 **B1**

Answer: A) £8.00

Question 95

correct option E (126) cao; 10 - 7 = 3 parts is 54, so 1 part is 18 **B1**

Answer: E) 126

Question 96

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

Answer: D) 8

Question 97

correct option A (25) cao; 5 - 2 = 3 parts is 15, so 1 part is 5 **B1**

Answer: A) 25

Question 98

correct option C (£10) cao **B1**

Answer: C) £10

Question 99

correct option D (£136.00) cao; 9 - 8 = 1 parts is 17, so 1 part is 17 **B1**

Answer: D) £136.00

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Question 100

correct option A (£56) cao **B1**

Answer: A) £56

Question 101

correct option B (10) cao; 8 - 5 = 3 parts is 6, so 1 part is 2 **B1**

Answer: B) 10

Question 102

correct option B (£105.00) cao; 7 - 4 = 3 parts is 45, so 1 part is 15 **B1**

Answer: B) £105.00

Question 103

correct option E (£33) cao **B1**

Answer: E) £33

Question 104

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

Answer: A) £20

Question 105

correct option C (169) cao; 7 - 6 = 1 parts is 13, so 1 part is 13 **B1**

Answer: C) 169

Question 106

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

Answer: D) 16

Question 107

correct option A (20) cao; 7 - 4 = 3 parts is 15, so 1 part is 5 **B1**

Answer: A) 20

Question 108

correct option B (56) cao; 7 - 6 = 1 parts is 8, so 1 part is 8 **B1**

Answer: B) 56

Question 109

correct option E (£11) cao **B1**

Answer: E) £11

Question 110

correct option E (35) cao; 6 - 1 = 5 parts is 25, so 1 part is 5 **B1**

Answer: E) 35

Question 111

correct option D (63) cao **B1**

Answer: D) 63

Question 112

correct option B (£6.00) cao; 3 - 2 = 1 parts is 2, so 1 part is 2 **B1**

Answer: B) £6.00

Question 113

correct option C (£64) cao **B1**

Answer: C) £64

Question 114

correct option A (100 g) cao **B1**

Answer: A) 100 g

Question 115

correct option B (£50) cao **B1**

Answer: B) £50

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