2.6 Ratio and Proportion: 2-hour Pack

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

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Amara and Kwame share 27 conkers in the ratio 1:2. How many conkers does Amara get?

- [ ] A) 18
- [ ] B) 8
- [ ] C) 9
- [ ] D) 27
- [ ] E) 10

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2 Lily has 1000 cm of ribbon and 4 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 25000:1
- [ ] B) 250:1
- [ ] C) 1000:400
- [ ] D) 5:2
- [ ] E) 2:5

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3 A photograph measuring 10 cm by 15 cm is enlarged proportionally so that its new width is 25 cm. Calculate the new height of the enlarged photograph.

(3)

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4 Tariq has 185 minutes of reading and 3 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 3700:1
- [ ] B) 37:73
- [ ] C) 37:36
- [ ] D) 185:3
- [ ] E) 36:37

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5 Anya and Niamh share £60 in the ratio 3:1. How much money does Niamh get?

- [ ] A) £15.00
- [ ] B) £16.00
- [ ] C) £45.00
- [ ] D) £60.00
- [ ] E) £14.00

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6 Maya has 700p of pocket money and £5 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 7:12
- [ ] B) 140:1
- [ ] C) 5:7
- [ ] D) 700:500
- [ ] E) 7:5

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7 Kwame and Ethan share 42 stamps in the ratio 5:9. How many stamps does Kwame get?

- [ ] A) 3
- [ ] B) 15
- [ ] C) 27
- [ ] D) 16
- [ ] E) 14

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8 Priya has 250p of pocket money and £1 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 250:100
- [ ] B) 5:2
- [ ] C) 250:1
- [ ] D) 25000:1
- [ ] E) 2:5

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9 Anya and Zainab share 120 shells in the ratio 8:7. How many shells does Zainab get?

- [ ] A) 55
- [ ] B) 64
- [ ] C) 57
- [ ] D) 56
- [ ] E) 8

---

10 Aisha has 95 minutes of reading and 3 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 1900:1
- [ ] B) 95:3
- [ ] C) 19:36
- [ ] D) 95:180
- [ ] E) 36:19

---

11 Anya has 130p of pocket money and £3 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 13:30
- [ ] B) 130:3
- [ ] C) 13000:3
- [ ] D) 130:300
- [ ] E) 30:13

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12 Sienna and Priya share £77 in the ratio 1:6. How much money does Sienna get?

- [ ] A) £11.00
- [ ] B) £77.00
- [ ] C) £38.50
- [ ] D) £66.00
- [ ] E) £12.00

---

13 Tom has 100 g of sugar and 7 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 100:7
- [ ] B) 1:71
- [ ] C) 1:70
- [ ] D) 70:1
- [ ] E) 100:7000

---

14 Sienna has 50p of pocket money and £2 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 4:1
- [ ] B) 25:1
- [ ] C) 1:5
- [ ] D) 2500:1
- [ ] E) 1:4

---

15 Chloe and Callum share £45 in the ratio 7:2. How much money does Chloe get?

- [ ] A) £22.50
- [ ] B) £5.00
- [ ] C) £36.00
- [ ] D) £35.00
- [ ] E) £10.00

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16 Tariq has 140p of pocket money and £8 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 7:47
- [ ] B) 40:7
- [ ] C) 7:40
- [ ] D) 35:2
- [ ] E) 1750:1

---

17 Ravi has 190 minutes of reading and 2 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 5700:1
- [ ] B) 12:19
- [ ] C) 95:1
- [ ] D) 19:12
- [ ] E) 190:120

---

18 Ewan and Declan share 55 conkers in the ratio 5:6. How many conkers does Ewan get?

- [ ] A) 5
- [ ] B) 24
- [ ] C) 30
- [ ] D) 11
- [ ] E) 25

---

19 Tom has 1000 ml of juice and 4 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 1:4
- [ ] B) 4:1
- [ ] C) 250000:1
- [ ] D) 250:1
- [ ] E) 1:5

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20 Poppy and Oliver share 70 shells in the ratio 6:1. How many shells does Poppy get?

- [ ] A) 35
- [ ] B) 61
- [ ] C) 10
- [ ] D) 60
- [ ] E) 59

---

21 Ewan has 10 minutes of reading and 5 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 2:1
- [ ] B) 120:1
- [ ] C) 1:30
- [ ] D) 30:1
- [ ] E) 1:31

---

22 Lily and Sienna share 80 pencils in the ratio 3:5. How many pencils does Lily get?

- [ ] A) 30
- [ ] B) 10
- [ ] C) 40
- [ ] D) 50
- [ ] E) 29

---

23 Kwame has 1350 g of sugar and 8 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 1350:8000
- [ ] B) 27:160
- [ ] C) 675:4
- [ ] D) 160:27
- [ ] E) 27:187

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24 Sienna has 50 ml of juice and 3 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 50:3
- [ ] B) 50000:3
- [ ] C) 50:3000
- [ ] D) 1:60
- [ ] E) 60:1

---

25 Kofi and Anya share 52 badges in the ratio 9:4. How many badges does Anya get?

- [ ] A) 4
- [ ] B) 16
- [ ] C) 36
- [ ] D) 26
- [ ] E) 17

---

26 Niamh has 650 cm of ribbon and 3 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 13:6
- [ ] B) 65000:3
- [ ] C) 650:3
- [ ] D) 13:19
- [ ] E) 6:13

---

27 Lily, Ffion and Sana share 42 football cards in the ratio 6:1:7. How many football cards does Lily get?

- [ ] A) 14
- [ ] B) 3
- [ ] C) 18
- [ ] D) 24
- [ ] E) 7

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28 Tom has 170 minutes of reading and 3 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 170:3
- [ ] B) 17:35
- [ ] C) 3400:1
- [ ] D) 18:17
- [ ] E) 17:18

---

29 Arjun and Ravi share 165 stickers in the ratio 7:4. How many stickers does Ravi get?

- [ ] A) 60
- [ ] B) 15
- [ ] C) 59
- [ ] D) 105
- [ ] E) 61

---

30 Ben has 440p of pocket money and £5 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 440:500
- [ ] B) 88:1
- [ ] C) 25:22
- [ ] D) 22:25
- [ ] E) 22:47

---

31 Imogen has 155 minutes of reading and 2 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 24:31
- [ ] B) 4650:1
- [ ] C) 31:24
- [ ] D) 155:2
- [ ] E) 155:120

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32 Fatima and Megan share 143 raffle tickets in the ratio 3:8. How many raffle tickets does Fatima get?

- [ ] A) 104
- [ ] B) 38
- [ ] C) 40
- [ ] D) 13
- [ ] E) 39

---

33 Callum has 900 g of sugar and 5 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 9:50
- [ ] B) 9:59
- [ ] C) 900:5000
- [ ] D) 180:1
- [ ] E) 50:9

---

34 Ravi and Ben share £88 in the ratio 2:9. How much money does Ravi get?

- [ ] A) £72.00
- [ ] B) £15.00
- [ ] C) £8.00
- [ ] D) £17.00
- [ ] E) £16.00

---

35 Harry has 1300 g of sugar and 3 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 13:43
- [ ] B) 13:30
- [ ] C) 1300:3000
- [ ] D) 1300:3
- [ ] E) 30:13

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36 Chloe and Anya share £91 in the ratio 3:4. How much money does Chloe get?

- [ ] A) £40.00
- [ ] B) £52.00
- [ ] C) £38.00
- [ ] D) £39.00
- [ ] E) £13.00

---

37 Zainab has 750 g of sugar and 1 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 4:3
- [ ] B) 750000:1
- [ ] C) 3:4
- [ ] D) 750:1
- [ ] E) 750:1000

---

38 Oliver has 200 cm of ribbon and 1 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 20000:1
- [ ] B) 200:1
- [ ] C) 1:2
- [ ] D) 200:100
- [ ] E) 2:1

---

39 Tariq and Arjun share £204 in the ratio 9:8. How much money does Tariq get?

- [ ] A) £107.00
- [ ] B) £108.00
- [ ] C) £109.00
- [ ] D) £96.00
- [ ] E) £12.00

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40 Hamza and Isla share 156 stamps in the ratio 9:4. How many stamps does Isla get?

- [ ] A) 108
- [ ] B) 12
- [ ] C) 48
- [ ] D) 39
- [ ] E) 47

---

41 Anya and Rhys share 80 football cards in the ratio 1:9. How many football cards does Rhys get?

- [ ] A) 8
- [ ] B) 40
- [ ] C) 73
- [ ] D) 71
- [ ] E) 72

---

42 Kofi and Tom share £52 in the ratio 3:1. How much money does Tom get?

- [ ] A) £13.00
- [ ] B) £52.00
- [ ] C) £26.00
- [ ] D) £14.00
- [ ] E) £39.00

---

43 Dylan, Sienna and Noah share £168 in the ratio 2:5:7. How much money does Sienna get?

- [ ] A) £12.00
- [ ] B) £60.00
- [ ] C) £108.00
- [ ] D) £59.00
- [ ] E) £84.00

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44 Dylan and Jack share 64 stamps in the ratio 3:5. How many stamps does Dylan get?

- [ ] A) 40
- [ ] B) 25
- [ ] C) 24
- [ ] D) 32
- [ ] E) 8

---

45 Zainab and Grace share £150 in the ratio 7:3. How much money does Zainab get?

- [ ] A) £75.00
- [ ] B) £105.00
- [ ] C) £106.00
- [ ] D) £15.00
- [ ] E) £45.00

---

46 Oliver and Amara share 72 stickers in the ratio 8:1. How many stickers does Oliver get?

- [ ] A) 63
- [ ] B) 9
- [ ] C) 65
- [ ] D) 64
- [ ] E) 8

---

47 Lily and Kofi share £65 in the ratio 4:1. How much money does Lily get?

- [ ] A) £16.25
- [ ] B) £51.00
- [ ] C) £52.00
- [ ] D) £13.00
- [ ] E) £53.00

---

48 Sana and Rhys share 72 football cards in the ratio 7:2. How many football cards does Sana get?

- [ ] A) 8
- [ ] B) 55
- [ ] C) 57
- [ ] D) 16
- [ ] E) 56

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49 Imogen and Anya share 225 football cards in the ratio 8:7. How many football cards does Anya get?

- [ ] A) 105
- [ ] B) 15
- [ ] C) 120
- [ ] D) 104
- [ ] E) 106

---

50 Ffion and Amara share £80 in the ratio 7:1. How much money does Amara get?

- [ ] A) £11
- [ ] B) £80
- [ ] C) £70
- [ ] D) £40
- [ ] E) £10

---

51 Poppy, Anya and Imogen share 48 raffle tickets in the ratio 1:3:2. How many raffle tickets does Anya get?

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

---

52 Ethan and Anya share £143 in the ratio 3:8. How much money does Anya get?

- [ ] A) £104.00
- [ ] B) £105.00
- [ ] C) £71.50
- [ ] D) £39.00
- [ ] E) £13.00

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53 Priya, Grace and Dylan share £312 in the ratio 8:9:7. How much money does Dylan get?

- [ ] A) £92.00
- [ ] B) £13.00
- [ ] C) £104.00
- [ ] D) £91.00
- [ ] E) £90.00

---

54 Ffion and Amara share £130 in the ratio 9:1. How much money does Amara get?

- [ ] A) £14.00
- [ ] B) £13.00
- [ ] C) £117.00
- [ ] D) £130.00
- [ ] E) £12.00

---

55 Ewan and Megan share 104 raffle tickets in the ratio 1:7. How many raffle tickets does Megan get?

- [ ] A) 92
- [ ] B) 90
- [ ] C) 52
- [ ] D) 13
- [ ] E) 91

---

56 Mei and Tom share 21 shells in the ratio 2:5. How many shells does Tom get?

- [ ] A) 14
- [ ] B) 15
- [ ] C) 16
- [ ] D) 6
- [ ] E) 3

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57 Yusuf has 250 g of sugar and 2 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 8:1
- [ ] B) 1:9
- [ ] C) 125000:1
- [ ] D) 125:1
- [ ] E) 1:8

---

58 Esme has 750 cm of ribbon and 2 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 4:15
- [ ] B) 15:19
- [ ] C) 375:1
- [ ] D) 15:4
- [ ] E) 37500:1

---

59 Fatima and Ethan share 15 marbles in the ratio 1:2. How many marbles does Fatima get?

- [ ] A) 5
- [ ] B) 6
- [ ] C) 15
- [ ] D) 4
- [ ] E) 10

---

60 Declan has 185 minutes of reading and 2 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 37:61
- [ ] B) 24:37
- [ ] C) 185:120
- [ ] D) 185:2
- [ ] E) 37:24

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61 Zainab, Aisha and Tom share 126 raffle tickets in the ratio 1:1:7. How many raffle tickets does Tom get?

- [ ] A) 98
- [ ] B) 97
- [ ] C) 42
- [ ] D) 18
- [ ] E) 14

---

62 Isla has 410p of pocket money and £3 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 410:3
- [ ] B) 41:30
- [ ] C) 41000:3
- [ ] D) 30:41
- [ ] E) 410:300

---

63 Tom and Oliver share 25 pencils in the ratio 4:1. How many pencils does Tom get?

- [ ] A) 200
- [ ] B) 2
- [ ] C) 5
- [ ] D) 20
- [ ] E) 21

---

64 Grace has 170p of pocket money and £5 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 34:1
- [ ] B) 50:17
- [ ] C) 3400:1
- [ ] D) 17:67
- [ ] E) 17:50

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65 Ravi has 850 ml of juice and 2 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 17:40
- [ ] B) 425000:1
- [ ] C) 17:57
- [ ] D) 40:17
- [ ] E) 425:1

---

66 Ewan and Callum share £112 in the ratio 7:9. How much money does Ewan get?

- [ ] A) £63.00
- [ ] B) £48.00
- [ ] C) £49.00
- [ ] D) £16.00
- [ ] E) £7.00

---

67 Jack has 650 ml of juice and 4 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 80:13
- [ ] B) 325:2
- [ ] C) 162500:1
- [ ] D) 13:93
- [ ] E) 13:80

---

68 Mei has 720p of pocket money and £3 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 5:12
- [ ] B) 720:300
- [ ] C) 12:5
- [ ] D) 240:1
- [ ] E) 24000:1

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69 Yusuf and Rhys share £99 in the ratio 4:7. How much money does Yusuf get?

- [ ] A) £35.00
- [ ] B) £9.00
- [ ] C) £63.00
- [ ] D) £36.00
- [ ] E) £49.50

---

70 Ffion has 100 cm of ribbon and 2 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 1:2
- [ ] B) 100:200
- [ ] C) 2:1
- [ ] D) 1:3
- [ ] E) 50:1

---

71 Anya has 160p of pocket money and £3 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 15:8
- [ ] B) 8:15
- [ ] C) 8:23
- [ ] D) 16000:3
- [ ] E) 160:3

---

72 Jack and Ewan share 6 raffle tickets in the ratio 2:1. How many raffle tickets does Jack get?

- [ ] A) 4
- [ ] B) 2
- [ ] C) 40
- [ ] D) 5
- [ ] E) 3

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73 Oliver has 550 g of sugar and 3 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 11:71
- [ ] B) 550000:3
- [ ] C) 11:60
- [ ] D) 550:3
- [ ] E) 60:11

---

74 Lily and Jack share £56 in the ratio 5:2. How much money does Jack get?

- [ ] A) £40.00
- [ ] B) £15.00
- [ ] C) £17.00
- [ ] D) £16.00
- [ ] E) £8.00

---

75 Megan has 430p of pocket money and £2 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 215:1
- [ ] B) 20:43
- [ ] C) 43:63
- [ ] D) 21500:1
- [ ] E) 43:20

---

76 Kwame and Ffion share £36 in the ratio 4:5. How much money does Kwame get?

- [ ] A) £17.00
- [ ] B) £16.00
- [ ] C) £18.00
- [ ] D) £20.00
- [ ] E) £4.00

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77 Harry has 700 g of sugar and 3 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 700:3000
- [ ] B) 30:7
- [ ] C) 7:30
- [ ] D) 7:37
- [ ] E) 700:3

---

78 Fatima has 850 ml of juice and 3 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 17:60
- [ ] B) 60:17
- [ ] C) 850:3
- [ ] D) 850:3000
- [ ] E) 17:77

---

79 Kwame and Lily share £36 in the ratio 5:1. How much money does Kwame get?

- [ ] A) £6.00
- [ ] B) £29.00
- [ ] C) £7.20
- [ ] D) £30.00
- [ ] E) £31.00

---

80 Ethan has 350 g of sugar and 4 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 80:7
- [ ] B) 175:2
- [ ] C) 350:4000
- [ ] D) 7:87
- [ ] E) 7:80

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81 Sana and Zainab share 52 marbles in the ratio 8:5. How many marbles does Zainab get?

- [ ] A) 32
- [ ] B) 19
- [ ] C) 21
- [ ] D) 20
- [ ] E) 4

---

82 Amara has 185 minutes of reading and 1 hour of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 12:37
- [ ] B) 37:12
- [ ] C) 185:1
- [ ] D) 11100:1
- [ ] E) 185:60

---

83 Yusuf and Poppy share 56 marbles in the ratio 1:6. How many marbles does Poppy get?

- [ ] A) 47
- [ ] B) 49
- [ ] C) 48
- [ ] D) 28
- [ ] E) 8

---

84 Poppy has 1000 g of sugar and 7 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 1:7
- [ ] B) 1000:7000
- [ ] C) 1000:7
- [ ] D) 7:1
- [ ] E) 1000000:7

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85 Esme has 140 minutes of reading and 4 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 2100:1
- [ ] B) 35:1
- [ ] C) 7:12
- [ ] D) 7:19
- [ ] E) 12:7

---

86 Kwame and Kofi share 105 pencils in the ratio 3:4. How many pencils does Kwame get?

- [ ] A) 15
- [ ] B) 44
- [ ] C) 35
- [ ] D) 45
- [ ] E) 60

---

87 Jack has 195 minutes of reading and 4 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 13:16
- [ ] B) 16:13
- [ ] C) 195:4
- [ ] D) 2925:1
- [ ] E) 195:240

---

88 Ewan and Fatima share 30 stickers in the ratio 3:2. How many stickers does Ewan get?

- [ ] A) 17
- [ ] B) 12
- [ ] C) 6
- [ ] D) 10
- [ ] E) 18

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89 Arjun has 80p of pocket money and £1 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 5:4
- [ ] B) 80:1
- [ ] C) 8000:1
- [ ] D) 80:100
- [ ] E) 4:5

---

90 Tariq and Esme share 42 stickers in the ratio 3:4. How many stickers does Tariq get?

- [ ] A) 14
- [ ] B) 18
- [ ] C) 24
- [ ] D) 21
- [ ] E) 6

---

91 Noah has 1050 g of sugar and 4 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 21:101
- [ ] B) 1050:4000
- [ ] C) 21:80
- [ ] D) 525:2
- [ ] E) 80:21

---

92 Harry has 185 minutes of reading and 5 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 60:37
- [ ] B) 2220:1
- [ ] C) 185:300
- [ ] D) 37:60
- [ ] E) 37:1

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93 Ewan and Tariq share 32 badges in the ratio 5:3. How many badges does Ewan get?

- [ ] A) 4
- [ ] B) 21
- [ ] C) 16
- [ ] D) 12
- [ ] E) 20

---

94 Rhys has 350 g of sugar and 1 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 7:20
- [ ] B) 350:1
- [ ] C) 350:1000
- [ ] D) 350000:1
- [ ] E) 20:7

---

95 Ethan has 700 cm of ribbon and 3 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 700:300
- [ ] B) 70000:3
- [ ] C) 700:3
- [ ] D) 7:3
- [ ] E) 3:7

---

96 Amara and Jack share 10 marbles in the ratio 3:2. How many marbles does Amara get?

- [ ] A) 7
- [ ] B) 5
- [ ] C) 6
- [ ] D) 2
- [ ] E) 4

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97 Kwame has 600 g of sugar and 1 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 5:3
- [ ] B) 600000:1
- [ ] C) 3:5
- [ ] D) 600:1
- [ ] E) 3:8

---

98 Kofi has 1300 ml of juice and 2 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 650:1
- [ ] B) 650000:1
- [ ] C) 1300:2000
- [ ] D) 13:20
- [ ] E) 20:13

---

99 Imogen and Grace share £63 in the ratio 4:5. How much money does Grace get?

- [ ] A) £31.50
- [ ] B) £35.00
- [ ] C) £28.00
- [ ] D) £34.00
- [ ] E) £7.00

---

100 Fatima has 480p of pocket money and £4 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 6:5
- [ ] B) 5:6
- [ ] C) 6:11
- [ ] D) 120:1
- [ ] E) 480:400

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101 Oliver and Lily share 120 stamps in the ratio 1:7. How many stamps does Oliver get?

- [ ] A) 120
- [ ] B) 14
- [ ] C) 15
- [ ] D) 105
- [ ] E) 60

---

102 Harry has 1150 ml of juice and 5 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 23:100
- [ ] B) 1150:5000
- [ ] C) 100:23
- [ ] D) 23:123
- [ ] E) 230:1

---

103 Jack and Dylan share 120 stickers in the ratio 5:7. How many stickers does Dylan get?

- [ ] A) 60
- [ ] B) 10
- [ ] C) 71
- [ ] D) 50
- [ ] E) 70

---

104 Isla has 1450 cm of ribbon and 1 m of string. What is the ratio of ribbon to string in its simplest form?

- [ ] A) 1450:100
- [ ] B) 29:2
- [ ] C) 145000:1
- [ ] D) 1450:1
- [ ] E) 2:29

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105 Lily has 240p of pocket money and £4 of savings. What is the ratio of pocket money to savings in its simplest form?

- [ ] A) 6000:1
- [ ] B) 240:400
- [ ] C) 60:1
- [ ] D) 5:3
- [ ] E) 3:5

---

106 Dylan and Ben share 20 pencils in the ratio 4:1. How many pencils does Dylan get?

- [ ] A) 17
- [ ] B) 4
- [ ] C) 16
- [ ] D) 5
- [ ] E) 15

---

107 Amara has 450 ml of juice and 2 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 9:49
- [ ] B) 225000:1
- [ ] C) 225:1
- [ ] D) 9:40
- [ ] E) 40:9

---

108 Tom and Jack share £15 in the ratio 2:3. How much money does Jack get?

- [ ] A) £8.00
- [ ] B) £9.00
- [ ] C) £6.00
- [ ] D) £5.00
- [ ] E) £3.00

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109 Poppy has 10 minutes of reading and 1 hour of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 1:6
- [ ] B) 600:1
- [ ] C) 10:1
- [ ] D) 1:7
- [ ] E) 6:1

---

110 Megan and Sana share £45 in the ratio 4:5. How much money does Megan get?

- [ ] A) £11.25
- [ ] B) £25.00
- [ ] C) £19.00
- [ ] D) £5.00
- [ ] E) £20.00

---

111 Dylan has 550 g of sugar and 4 kg of flour. What is the ratio of sugar to flour in its simplest form?

- [ ] A) 11:80
- [ ] B) 275:2
- [ ] C) 80:11
- [ ] D) 137500:1
- [ ] E) 550:4000

---

112 Sienna has 40 minutes of reading and 4 hours of homework. What is the ratio of reading to homework in its simplest form?

- [ ] A) 600:1
- [ ] B) 10:1
- [ ] C) 1:6
- [ ] D) 1:7
- [ ] E) 6:1

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113 Kwame and Grace share 18 conkers in the ratio 1:5. How many conkers does Kwame get?

- [ ] A) 18
- [ ] B) 2
- [ ] C) 4
- [ ] D) 3
- [ ] E) 15

---

114 Kofi has 900 ml of juice and 3 litres of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 10:3
- [ ] B) 300:1
- [ ] C) 3:13
- [ ] D) 3:10
- [ ] E) 300000:1

---

115 Yusuf and Callum share £63 in the ratio 5:4. How much money does Yusuf get?

- [ ] A) £35.00
- [ ] B) £28.00
- [ ] C) £31.50
- [ ] D) £12.60
- [ ] E) £7.00

---

116 Jack has 850 ml of juice and 1 litre of water. What is the ratio of juice to water in its simplest form?

- [ ] A) 850:1
- [ ] B) 17:20
- [ ] C) 850:1000
- [ ] D) 850000:1
- [ ] E) 20:17

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117 Imogen and Ffion share £165 in the ratio 7:8. How much money does Imogen get?

- ☐ A) £11.00
- ☐ B) £76.00
- ☐ C) £77.00
- ☐ D) £82.50
- ☐ E) £88.00

---

118 Kwame has 150 cm of ribbon and 6 m of string. What is the ratio of ribbon to string in its simplest form?

- ☐ A) 150:600
- ☐ B) 4:1
- ☐ C) 25:1
- ☐ D) 1:5
- ☐ E) 1:4

---

119 A metal alloy is made from copper and tin in the ratio 5 : 3. A jeweller has 45 g of copper.

(a) Calculate how much tin must be added to the copper to make the alloy. **(2)**

.....

(b) Calculate the total mass of alloy produced. **(1)**

.....

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120 In a school, the ratio of Year 7 pupils to Year 8 pupils is 5 : 4. The ratio of Year 8 pupils to Year 9 pupils is 3 : 2. Calculate the ratio of Year 7 to Year 8 to Year 9 pupils, giving your answer in its simplest form.

(3)

---

121 A sum of money is divided between Liam and Noah in the ratio 5 : 3. Liam receives £45 more than Noah. Calculate the total sum of money divided between them.

(4)

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Mark scheme · 2.6 Ratio and Proportion: 2-hour Pack

Question 1

correct option C (9) cao; 27 / 3 = 9 per part, then 9 x 1 = 9 **B1**

Answer: C) 9

Question 2

correct option D (5:2) cao; convert to cm: 1000:400 then divide by the highest common factor **B1**

Answer: D) 5:2

Question 3

scale factor found: 25/10 = 2.5 **M1**

dep: their 2.5 x 15 **M1**

37.5 cm cao **A1**

Answer: 37.5 cm

Question 4

correct option C (37:36) cao; convert to minutes: 185:180 then divide by the highest common factor **B1**

Answer: C) 37:36

Question 5

correct option A (£15.00) cao; 60 / 4 = 15 per part, then 15 x 1 = 15 **B1**

Answer: A) £15.00

Question 6

correct option E (7:5) cao; convert to p: 700:500 then divide by the highest common factor **B1**

Answer: E) 7:5

Question 7

correct option B (15) cao; 42 / 14 = 3 per part, then 3 x 5 = 15 **B1**

Answer: B) 15

Question 8

correct option B (5:2) cao; convert to p: 250:100 then divide by the highest common factor **B1**

Answer: B) 5:2

Question 9

correct option D (56) cao; 120 / 15 = 8 per part, then 8 x 7 = 56 **B1**

Answer: D) 56

Question 10

correct option C (19:36) cao; convert to minutes: 95:180 then divide by the highest common factor **B1**

Answer: C) 19:36

Question 11

correct option A (13:30) cao; convert to p: 130:300 then divide by the highest common factor **B1**

Answer: A) 13:30

Question 12

correct option A (£11.00) cao; 77 / 7 = 11 per part, then 11 x 1 = 11 **B1**

Answer: A) £11.00

Question 13

correct option C (1:70) cao; convert to g: 100:7000 then divide by the highest common factor **B1**

Answer: C) 1:70

Question 14

correct option E (1:4) cao; convert to p: 50:200 then divide by the highest common factor **B1**

Answer: E) 1:4

Question 15

correct option D (£35.00) cao; 45 / 9 = 5 per part, then 5 x 7 = 35 **B1**

Answer: D) £35.00

Question 16

correct option C (7:40) cao; convert to p: 140:800 then divide by the highest common factor **B1**

Answer: C) 7:40

Question 17

correct option D (19:12) cao; convert to minutes: 190:120 then divide by the highest common factor **B1**

Answer: D) 19:12

Question 18

correct option E (25) cao; 55 / 11 = 5 per part, then 5 x 5 = 25 **B1**

Answer: E) 25

Question 19

correct option A (1:4) cao; convert to ml: 1000:4000 then divide by the highest common factor **B1**

Answer: A) 1:4

Question 20

correct option D (60) cao; 70 / 7 = 10 per part, then 10 x 6 = 60 **B1**

Answer: D) 60

Question 21

correct option C (1:30) cao; convert to minutes: 10:300 then divide by the highest common factor **B1**

Answer: C) 1:30

Question 22

correct option A (30) cao; 80 / 8 = 10 per part, then 10 x 3 = 30 **B1**

Answer: A) 30

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Question 23

correct option B (27:160) cao; convert to g: 1350:8000 then divide by the highest common factor **B1**

Answer: B) 27:160

Question 24

correct option D (1:60) cao; convert to ml: 50:3000 then divide by the highest common factor **B1**

Answer: D) 1:60

Question 25

correct option B (16) cao; 52 / 13 = 4 per part, then 4 x 4 = 16 **B1**

Answer: B) 16

Question 26

correct option A (13:6) cao; convert to cm: 650:300 then divide by the highest common factor **B1**

Answer: A) 13:6

Question 27

correct option C (18) cao; 42 / 14 = 3 per part, then 3 x 6 = 18 **B1**

Answer: C) 18

Question 28

correct option E (17:18) cao; convert to minutes: 170:180 then divide by the highest common factor **B1**

Answer: E) 17:18

Question 29

correct option A (60) cao; 165 / 11 = 15 per part, then 15 x 4 = 60 **B1**

Answer: A) 60

Question 30

correct option D (22:25) cao; convert to p: 440:500 then divide by the highest common factor **B1**

Answer: D) 22:25

Question 31

correct option C (31:24) cao; convert to minutes: 155:120 then divide by the highest common factor **B1**

Answer: C) 31:24

Question 32

correct option E (39) cao; 143 / 11 = 13 per part, then 13 x 3 = 39 **B1**

Answer: E) 39

Question 33

correct option A (9:50) cao; convert to g: 900:5000 then divide by the highest common factor **B1**

Answer: A) 9:50

Question 34

correct option E (£16.00) cao; 88 / 11 = 8 per part, then 8 x 2 = 16 **B1**

Answer: E) £16.00

Question 35

correct option B (13:30) cao; convert to g: 1300:3000 then divide by the highest common factor **B1**

Answer: B) 13:30

Question 36

correct option D (£39.00) cao; 91 / 7 = 13 per part, then 13 x 3 = 39 **B1**

Answer: D) £39.00

Question 37

correct option C (3:4) cao; convert to g: 750:1000 then divide by the highest common factor **B1**

Answer: C) 3:4

Question 38

correct option E (2:1) cao; convert to cm: 200:100 then divide by the highest common factor **B1**

Answer: E) 2:1

Question 39

correct option B (£108.00) cao; 204 / 17 = 12 per part, then 12 x 9 = 108 **B1**

Answer: B) £108.00

Question 40

correct option C (48) cao; 156 / 13 = 12 per part, then 12 x 4 = 48 **B1**

Answer: C) 48

Question 41

correct option E (72) cao; 80 / 10 = 8 per part, then 8 x 9 = 72 **B1**

Answer: E) 72

Question 42

correct option A (£13.00) cao; 52 / 4 = 13 per part, then 13 x 1 = 13 **B1**

Answer: A) £13.00

Question 43

correct option B (£60.00) cao; 168 / 14 = 12 per part, then 12 x 5 = 60 **B1**

Answer: B) £60.00

Question 44

correct option C (24) cao; 64 / 8 = 8 per part, then 8 x 3 = 24 **B1**

Answer: C) 24

Question 45

correct option B (£105.00) cao; 150 / 10 = 15 per part, then 15 x 7 = 105 **B1**

Answer: B) £105.00

Question 46

correct option D (64) cao; 72 / 9 = 8 per part, then 8 x 8 = 64 **B1**

Answer: D) 64

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Question 47

correct option C (£52.00) cao; 65 / 5 = 13 per part, then 13 x 4 = 52 **B1**

Answer: C) £52.00

Question 48

correct option E (56) cao; 72 / 9 = 8 per part, then 8 x 7 = 56 **B1**

Answer: E) 56

Question 49

correct option A (105) cao; 225 / 15 = 15 per part, then 15 x 7 = 105 **B1**

Answer: A) 105

Question 50

correct option E (£10) cao; 80 / 8 = 10 per part, then 10 x 1 = 10 **B1**

Answer: E) £10

Question 51

correct option C (24) cao; 48 / 6 = 8 per part, then 8 x 3 = 24 **B1**

Answer: C) 24

Question 52

correct option A (£104.00) cao; 143 / 11 = 13 per part, then 13 x 8 = 104 **B1**

Answer: A) £104.00

Question 53

correct option D (£91.00) cao; 312 / 24 = 13 per part, then 13 x 7 = 91 **B1**

Answer: D) £91.00

Question 54

correct option B (£13.00) cao; 130 / 10 = 13 per part, then 13 x 1 = 13 **B1**

Answer: B) £13.00

Question 55

correct option E (91) cao; 104 / 8 = 13 per part, then 13 x 7 = 91 **B1**

Answer: E) 91

Question 56

correct option B (15) cao; 21 / 7 = 3 per part, then 3 x 5 = 15 **B1**

Answer: B) 15

Question 57

correct option E (1:8) cao; convert to g: 250:2000 then divide by the highest common factor **B1**

Answer: E) 1:8

Question 58

correct option D (15:4) cao; convert to cm: 750:200 then divide by the highest common factor **B1**

Answer: D) 15:4

Question 59

correct option A (5) cao; 15 / 3 = 5 per part, then 5 x 1 = 5 **B1**

Answer: A) 5

Question 60

correct option E (37:24) cao; convert to minutes: 185:120 then divide by the highest common factor **B1**

Answer: E) 37:24

Question 61

correct option A (98) cao; 126 / 9 = 14 per part, then 14 x 7 = 98 **B1**

Answer: A) 98

Question 62

correct option B (41:30) cao; convert to p: 410:300 then divide by the highest common factor **B1**

Answer: B) 41:30

Question 63

correct option D (20) cao; 25 / 5 = 5 per part, then 5 x 4 = 20 **B1**

Answer: D) 20

Question 64

correct option E (17:50) cao; convert to p: 170:500 then divide by the highest common factor **B1**

Answer: E) 17:50

Question 65

correct option A (17:40) cao; convert to ml: 850:2000 then divide by the highest common factor **B1**

Answer: A) 17:40

Question 66

correct option C (£49.00) cao; 112 / 16 = 7 per part, then 7 x 7 = 49 **B1**

Answer: C) £49.00

Question 67

correct option E (13:80) cao; convert to ml: 650:4000 then divide by the highest common factor **B1**

Answer: E) 13:80

Question 68

correct option C (12:5) cao; convert to p: 720:300 then divide by the highest common factor **B1**

Answer: C) 12:5

Question 69

correct option D (£36.00) cao; 99 / 11 = 9 per part, then 9 x 4 = 36 **B1**

Answer: D) £36.00

Question 70

correct option A (1:2) cao; convert to cm: 100:200 then divide by the highest common factor **B1**

Answer: A) 1:2

Question 71

correct option B (8:15) cao; convert to p: 160:300 then divide by the highest common factor **B1**

Answer: B) 8:15

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Question 72

correct option A (4) cao; 6 / 3 = 2 per part, then 2 x 2 = 4 **B1**

Answer: A) 4

Question 73

correct option C (11:60) cao; convert to g: 550:3000 then divide by the highest common factor **B1**

Answer: C) 11:60

Question 74

correct option D (£16.00) cao; 56 / 7 = 8 per part, then 8 x 2 = 16 **B1**

Answer: D) £16.00

Question 75

correct option E (43:20) cao; convert to p: 430:200 then divide by the highest common factor **B1**

Answer: E) 43:20

Question 76

correct option B (£16.00) cao; 36 / 9 = 4 per part, then 4 x 4 = 16 **B1**

Answer: B) £16.00

Question 77

correct option C (7:30) cao; convert to g: 700:3000 then divide by the highest common factor **B1**

Answer: C) 7:30

Question 78

correct option A (17:60) cao; convert to ml: 850:3000 then divide by the highest common factor **B1**

Answer: A) 17:60

Question 79

correct option D (£30.00) cao; 36 / 6 = 6 per part, then 6 x 5 = 30 **B1**

Answer: D) £30.00

Question 80

correct option E (7:80) cao; convert to g: 350:4000 then divide by the highest common factor **B1**

Answer: E) 7:80

Question 81

correct option D (20) cao; 52 / 13 = 4 per part, then 4 x 5 = 20 **B1**

Answer: D) 20

Question 82

correct option B (37:12) cao; convert to minutes: 185:60 then divide by the highest common factor **B1**

Answer: B) 37:12

Question 83

correct option C (48) cao; 56 / 7 = 8 per part, then 8 x 6 = 48 **B1**

Answer: C) 48

Question 84

correct option A (1:7) cao; convert to g: 1000:7000 then divide by the highest common factor **B1**

Answer: A) 1:7

Question 85

correct option C (7:12) cao; convert to minutes: 140:240 then divide by the highest common factor **B1**

Answer: C) 7:12

Question 86

correct option D (45) cao; 105 / 7 = 15 per part, then 15 x 3 = 45 **B1**

Answer: D) 45

Question 87

correct option A (13:16) cao; convert to minutes: 195:240 then divide by the highest common factor **B1**

Answer: A) 13:16

Question 88

correct option E (18) cao; 30 / 5 = 6 per part, then 6 x 3 = 18 **B1**

Answer: E) 18

Question 89

correct option E (4:5) cao; convert to p: 80:100 then divide by the highest common factor **B1**

Answer: E) 4:5

Question 90

correct option B (18) cao; 42 / 7 = 6 per part, then 6 x 3 = 18 **B1**

Answer: B) 18

Question 91

correct option C (21:80) cao; convert to g: 1050:4000 then divide by the highest common factor **B1**

Answer: C) 21:80

Question 92

correct option D (37:60) cao; convert to minutes: 185:300 then divide by the highest common factor **B1**

Answer: D) 37:60

Question 93

correct option E (20) cao; 32 / 8 = 4 per part, then 4 x 5 = 20 **B1**

Answer: E) 20

Question 94

correct option A (7:20) cao; convert to g: 350:1000 then divide by the highest common factor **B1**

Answer: A) 7:20

Question 95

correct option D (7:3) cao; convert to cm: 700:300 then divide by the highest common factor **B1**

Answer: D) 7:3

Question 96

correct option C (6) cao; 10 / 5 = 2 per part, then 2 x 3 = 6 **B1**

Answer: C) 6

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Question 97

correct option C (3:5) cao; convert to g: 600:1000 then divide by the highest common factor **B1**

Answer: C) 3:5

Question 98

correct option D (13:20) cao; convert to ml: 1300:2000 then divide by the highest common factor **B1**

Answer: D) 13:20

Question 99

correct option B (£35.00) cao; 63 / 9 = 7 per part, then 7 x 5 = 35 **B1**

Answer: B) £35.00

Question 100

correct option A (6:5) cao; convert to p: 480:400 then divide by the highest common factor **B1**

Answer: A) 6:5

Question 101

correct option C (15) cao; 120 / 8 = 15 per part, then 15 x 1 = 15 **B1**

Answer: C) 15

Question 102

correct option A (23:100) cao; convert to ml: 1150:5000 then divide by the highest common factor **B1**

Answer: A) 23:100

Question 103

correct option E (70) cao; 120 / 12 = 10 per part, then 10 x 7 = 70 **B1**

Answer: E) 70

Question 104

correct option B (29:2) cao; convert to cm: 1450:100 then divide by the highest common factor **B1**

Answer: B) 29:2

Question 105

correct option E (3:5) cao; convert to p: 240:400 then divide by the highest common factor **B1**

Answer: E) 3:5

Question 106

correct option C (16) cao; 20 / 5 = 4 per part, then 4 x 4 = 16 **B1**

Answer: C) 16

Question 107

correct option D (9:40) cao; convert to ml: 450:2000 then divide by the highest common factor **B1**

Answer: D) 9:40

Question 108

correct option B (£9.00) cao; 15 / 5 = 3 per part, then 3 x 3 = 9 **B1**

Answer: B) £9.00

Question 109

correct option A (1:6) cao; convert to minutes: 10:60 then divide by the highest common factor **B1**

Answer: A) 1:6

Question 110

correct option E (£20.00) cao; 45 / 9 = 5 per part, then 5 x 4 = 20 **B1**

Answer: E) £20.00

Question 111

correct option A (11:80) cao; convert to g: 550:4000 then divide by the highest common factor **B1**

Answer: A) 11:80

Question 112

correct option C (1:6) cao; convert to minutes: 40:240 then divide by the highest common factor **B1**

Answer: C) 1:6

Question 113

correct option D (3) cao; 18 / 6 = 3 per part, then 3 x 1 = 3 **B1**

Answer: D) 3

Question 114

correct option D (3:10) cao; convert to ml: 900:3000 then divide by the highest common factor **B1**

Answer: D) 3:10

Question 115

correct option A (£35.00) cao; 63 / 9 = 7 per part, then 7 x 5 = 35 **B1**

Answer: A) £35.00

Question 116

correct option B (17:20) cao; convert to ml: 850:1000 then divide by the highest common factor **B1**

Answer: B) 17:20

Question 117

correct option C (£77.00) cao; 165 / 15 = 11 per part, then 11 x 7 = 77 **B1**

Answer: C) £77.00

Question 118

correct option E (1:4) cao; convert to cm: 150:600 then divide by the highest common factor **B1**

Answer: E) 1:4

Question 119

(a) unit value found: 45/5 = 9 **M1**

(a) 27 g cao **A1**

(a) Answer: 27 g

(b) 72 g (ft from part a: 45 + their tin mass) **B1**

(b) Answer: 72 g

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Question 120

finds a common value for Year 8 in both ratios (e.g. scales 5:4 to 15:12 and 3:2 to 12:8, using the LCM of 4 and 3, which is 12)	**M1**
dep: combines to give 15 : 12 : 8	**M1**
15 : 12 : 8 cao (already in simplest form, HCF = 1)	**A1**

Answer: 15 : 12 : 8

Question 121

difference in parts found: 5 - 3 = 2	**M1**
dep: unit value found: 45/2 = 22.50	**M1**
dep: total parts found (5 + 3 = 8) and their 22.50 x 8	**M1**
£180 cao	**A1**

Answer: £180

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