2.2 Fractions, Decimals and Percentages: 2-hour Pack

ISEB CE.M2 · Calculator allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 1 1/2 + 4/7. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- ☐ A) 2 1/7
- ☐ B) 2
- ☐ C) 1/2
- ☐ D) 2 1/14
- ☐ E) 6/7

---

2 Work out 5/8 × 1/10. Give your answer in its simplest form.

- ☐ A) 29/40
- ☐ B) 5/18
- ☐ C) 1/16
- ☐ D) 6 1/4
- ☐ E) 4/25

---

3 Which of these values is the greatest?

- ☐ A) 41%
- ☐ B) 0.465
- ☐ C) 31%
- ☐ D) 50%
- ☐ E) 2/5

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4 Work out 1/5 + 3/10. Give your answer as a fraction in its simplest form.

- [ ] A) 1/2
- [ ] B) 3/5
- [ ] C) 4/15
- [ ] D) 2/5
- [ ] E) 2/25

---

5 Work out 9/10 ÷ 1/3. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 10/27
- [ ] B) 2 7/10
- [ ] C) 3/10
- [ ] D) 3 1/3
- [ ] E) 9/13

---

6 Nia has £40. Nia spends 1/2 of the money on a book, then 1/4 of the money that remains on lunch. How much money is left?

- [ ] A) £25
- [ ] B) £10
- [ ] C) £15
- [ ] D) £20
- [ ] E) £30

---

7 Which of these values is the smallest?

- [ ] A) 0.375
- [ ] B) 0.355
- [ ] C) 0.38
- [ ] D) 0.415
- [ ] E) 0.4

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8 Work out 1/8 + 2/3. Give your answer as a fraction in its simplest form.

- [ ] A) 3/4
- [ ] B) 1/12
- [ ] C) 1/8
- [ ] D) 19/24
- [ ] E) 5/6

---

9 Work out 1/2 × 9/10. Give your answer in its simplest form.

- [ ] A) 9/20
- [ ] B) 1 2/5
- [ ] C) 1 4/5
- [ ] D) 3/4
- [ ] E) 1/2

---

10 Which of these values is the greatest?

- [ ] A) 0.2
- [ ] B) 37%
- [ ] C) 40%
- [ ] D) 0.25
- [ ] E) 0.38

---

11 Which of these values is the smallest?

- [ ] A) 74%
- [ ] B) 0.59
- [ ] C) 0.69
- [ ] D) 0.795
- [ ] E) 0.635

---

12 Work out 1/5 + 1/2. Give your answer as a fraction in its simplest form.

- [ ] A) 4/5
- [ ] B) 1/10
- [ ] C) 7/10
- [ ] D) 1/5
- [ ] E) 2/7

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13 Work out 5/8 ÷ 1/6. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 3 3/4
- [ ] B) 1/8
- [ ] C) 9 3/5
- [ ] D) 5/14
- [ ] E) 5/48

---

14 Isla has £30. Isla spends 1/3 of the money on a book and 1/2 of the money on a game. How much money is left?

- [ ] A) £20
- [ ] B) £5
- [ ] C) £25
- [ ] D) £10
- [ ] E) £15

---

15 Which of these values is the greatest?

- [ ] A) 26%
- [ ] B) 0.295
- [ ] C) 2/5
- [ ] D) 0.25
- [ ] E) 45%

---

16 Work out 2/5 - 1/10. Give your answer as a fraction in its simplest form.

- [ ] A) 1/25
- [ ] B) 2/5
- [ ] C) 1/10
- [ ] D) 3/10
- [ ] E) 1/5

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17 There are 100 pupils in a year group. 1/5 of them walk to school. 2/5 of the others cycle. The rest take the bus. How many take the bus?

- [ ] A) 80
- [ ] B) 40
- [ ] C) 32
- [ ] D) 48
- [ ] E) 60

---

18 Which of these values is the greatest?

- [ ] A) 0.235
- [ ] B) 8/25
- [ ] C) 0.33
- [ ] D) 0.335
- [ ] E) 0.375

---

19 Work out 1/6 + 2/3. Give your answer as a fraction in its simplest form.

- [ ] A) 2/3
- [ ] B) 1
- [ ] C) 5/6
- [ ] D) 1/2
- [ ] E) 1/9

---

20 Work out 1/4 ÷ 2/3. Give your answer in its simplest form.

- [ ] A) 3/8
- [ ] B) 1/4
- [ ] C) 1/6
- [ ] D) 6
- [ ] E) 2 2/3

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21 Work out 2/5 + 1/8. Give your answer as a fraction in its simplest form.

- [ ] A) 1/20
- [ ] B) 1/2
- [ ] C) 3/40
- [ ] D) 21/40
- [ ] E) 11/20

---

22 Freddie has £72. Freddie spends 1/6 of the money on a book, then 1/2 of the money that remains on lunch. How much money is left?

- [ ] A) £60
- [ ] B) £30
- [ ] C) £36
- [ ] D) £24
- [ ] E) £42

---

23 Which of these values is the smallest?

- [ ] A) 44%
- [ ] B) 53%
- [ ] C) 0.485
- [ ] D) 23/40
- [ ] E) 60%

---

24 Work out 2/3 × 1/10. Give your answer in its simplest form.

- [ ] A) 1/10
- [ ] B) 3/20
- [ ] C) 23/30
- [ ] D) 1/15
- [ ] E) 2/13

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25 Grace has £300. Grace spends 2/5 of the money on a book, then 1/2 of the money that remains on lunch. How much money is left?

- [ ] A) £150
- [ ] B) £180
- [ ] C) £90
- [ ] D) £30
- [ ] E) £210

---

26 Which of these values is the greatest?

- [ ] A) 0.47
- [ ] B) 50%
- [ ] C) 44%
- [ ] D) 0.48
- [ ] E) 40%

---

27 Work out 4/5 ÷ 2/5. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 1/2
- [ ] B) 8/25
- [ ] C) 6/25
- [ ] D) 2
- [ ] E) 3 1/8

---

28 There are 750 pupils in a year group. 2/3 of them walk to school. 1/5 of the others cycle. The rest take the bus. How many take the bus?

- [ ] A) 250
- [ ] B) 100
- [ ] C) 600
- [ ] D) 550
- [ ] E) 200

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29 Which of these values is the smallest?

- [ ] A) 2/5
- [ ] B) 17/40
- [ ] C) 0.465
- [ ] D) 21/40
- [ ] E) 1/2

---

30 Work out 1/2 + 3/5. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 2/5
- [ ] B) 1 1/10
- [ ] C) 3/10
- [ ] D) 1
- [ ] E) 4/7

---

31 Work out 1/2 ÷ 3/5. Give your answer in its simplest form.

- [ ] A) 3 1/3
- [ ] B) 3/10
- [ ] C) 1 1/5
- [ ] D) 5/6
- [ ] E) 2/5

---

32 There are 84 pupils in a year group. 1/4 of them walk to school and 1/3 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 63
- [ ] B) 21
- [ ] C) 35
- [ ] D) 56
- [ ] E) 42

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33 Which of these values is the greatest?

- [ ] A) 0.5
- [ ] B) 17/40
- [ ] C) 47%
- [ ] D) 45%
- [ ] E) 0.37

---

34 Work out 2/5 - 1/6. Give your answer as a fraction in its simplest form.

- [ ] A) 1/30
- [ ] B) 4/15
- [ ] C) 1/11
- [ ] D) 1/15
- [ ] E) 7/30

---

35 Work out 1/3 × 4/9. Give your answer in its simplest form.

- [ ] A) 1 1/3
- [ ] B) 1/3
- [ ] C) 5/27
- [ ] D) 4/27
- [ ] E) 7/9

---

36 Fergus has £660. Fergus spends 1/3 of the money on a book, then 1/4 of the money that remains on lunch. How much money is left?

- [ ] A) £440
- [ ] B) £330
- [ ] C) £110
- [ ] D) £275
- [ ] E) £495

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37 Work out 3/4 + 1/2. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1/2
- [ ] B) 3/8
- [ ] C) 1
- [ ] D) 2/3
- [ ] E) 1 1/4

---

38 Work out 9/10 ÷ 1/5. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 4 1/2
- [ ] B) 1/5
- [ ] C) 3/5
- [ ] D) 2/9
- [ ] E) 5 5/9

---

39 Amira has a 420 km route to cycle. Amira cycles 1/4 of the route before lunch and 2/3 of the route after lunch. How many kilometres are left?

- [ ] A) 315 km
- [ ] B) 140 km
- [ ] C) 105 km
- [ ] D) 210 km
- [ ] E) 35 km

---

40 Mei has a 1650 km route to cycle. Mei cycles 3/5 of the route before lunch and 1/6 of the distance that is left after lunch. How many kilometres are left?

- [ ] A) 550 km
- [ ] B) 1100 km
- [ ] C) 110 km
- [ ] D) 385 km
- [ ] E) 1375 km

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41 Which of these values is the greatest?

- [ ] A) 0.355
- [ ] B) 17/40
- [ ] C) 0.335
- [ ] D) 9/25
- [ ] E) 0.33

---

42 Work out 5/6 - 3/5. Give your answer as a fraction in its simplest form.

- [ ] A) 1/2
- [ ] B) 1/15
- [ ] C) 1/5
- [ ] D) 2/11
- [ ] E) 7/30

---

43 Work out 2/3 × 1/3. Give your answer in its simplest form.

- [ ] A) 1
- [ ] B) 1/2
- [ ] C) 1/3
- [ ] D) 2/9
- [ ] E) 2

---

44 Which of these values is the greatest?

- [ ] A) 46%
- [ ] B) 42%
- [ ] C) 0.45
- [ ] D) 0.6
- [ ] E) 0.4

---

45 Work out 1/2 + 3/10. Give your answer as a fraction in its simplest form.

- [ ] A) 7/10
- [ ] B) 2/5
- [ ] C) 4/5
- [ ] D) 1/5
- [ ] E) 1/3

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46 Work out 4/9 × 3/10. Give your answer in its simplest form.

- [ ] A) 7/90
- [ ] B) 1 13/27
- [ ] C) 27/40
- [ ] D) 67/90
- [ ] E) 2/15

---

47 Kwame has £45. Kwame spends 1/3 of the money on a book, then 1/5 of the money that remains on lunch. How much money is left?

- [ ] A) £24
- [ ] B) £6
- [ ] C) £36
- [ ] D) £30
- [ ] E) £21

---

48 Which of these values is the greatest?

- [ ] A) 0.345
- [ ] B) 0.38
- [ ] C) 35%
- [ ] D) 32%
- [ ] E) 3/8

---

49 Which of these values is the smallest?

- [ ] A) 0.255
- [ ] B) 0.545
- [ ] C) 0.24
- [ ] D) 0.445
- [ ] E) 0.355

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50 Work out 4/5 - 1/8. Give your answer as a fraction in its simplest form.

- [ ] A) 1/10
- [ ] B) 27/40
- [ ] C) 7/10
- [ ] D) 3/40
- [ ] E) 13/20

---

51 There are 66 pupils in a year group. 1/3 of them walk to school and 1/2 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 55
- [ ] B) 44
- [ ] C) 22
- [ ] D) 11
- [ ] E) 33

---

52 Which of these values is the smallest?

- [ ] A) 0.655
- [ ] B) 0.56
- [ ] C) 3/5
- [ ] D) 55%
- [ ] E) 1/2

---

53 Work out 2/5 + 3/10. Give your answer as a fraction in its simplest form.

- [ ] A) 1/3
- [ ] B) 4/5
- [ ] C) 7/10
- [ ] D) 3/25
- [ ] E) 1/2

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54 Sophie has £60. Sophie spends 1/4 of the money on a book, then 1/3 of the money that remains on lunch. How much money is left?

- [ ] A) £15
- [ ] B) £30
- [ ] C) £25
- [ ] D) £45
- [ ] E) £40

---

55 Which of these values is the smallest?

- [ ] A) 0.665
- [ ] B) 59%
- [ ] C) 0.625
- [ ] D) 60%
- [ ] E) 0.575

---

56 Work out 3/5 + 7/12. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1/6
- [ ] B) 10/17
- [ ] C) 1 1/6
- [ ] D) 1 11/60
- [ ] E) 7/20

---

57 Work out 7/12 - 1/4. Give your answer as a fraction in its simplest form.

- [ ] A) 3/8
- [ ] B) 7/48
- [ ] C) 1/8
- [ ] D) 1/4
- [ ] E) 1/3

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58 Work out 1/2 ÷ 3 1/2. Give your answer in its simplest form.

- [ ] A) 2
- [ ] B) 1/7
- [ ] C) 4/7
- [ ] D) 1 3/4
- [ ] E) 7

---

59 There are 100 pupils in a year group. 4/5 of them walk to school. 1/4 of the others cycle. The rest take the bus. How many take the bus?

- [ ] A) 20
- [ ] B) 75
- [ ] C) 5
- [ ] D) 15
- [ ] E) 85

---

60 Which of these values is the smallest?

- [ ] A) 35%
- [ ] B) 11/25
- [ ] C) 54%
- [ ] D) 0.445
- [ ] E) 0.75

---

61 Work out 2 1/4 + 1 1/6. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 2 5/8
- [ ] B) 3 1/2
- [ ] C) 3 5/12
- [ ] D) 1 3/5
- [ ] E) 3 1/3

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62 Work out 1/2 × 1/4. Give your answer in its simplest form.

- [ ] A) 2
- [ ] B) 1/2
- [ ] C) 3/4
- [ ] D) 1/8
- [ ] E) 1/6

---

63 There are 200 pupils in a year group. 1/5 of them walk to school and 1/4 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 110
- [ ] B) 150
- [ ] C) 120
- [ ] D) 40
- [ ] E) 90

---

64 Work out 2 1/4 + 1 5/7. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 4
- [ ] B) 3 27/28
- [ ] C) 3/4
- [ ] D) 3 13/14
- [ ] E) 3 6/7

---

65 Work out 8/9 × 1/8. Give your answer in its simplest form.

- [ ] A) 1 1/72
- [ ] B) 1/9
- [ ] C) 7 1/9
- [ ] D) 8/17
- [ ] E) 1/8

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66 There are 80 pupils in a year group. 2/5 of them walk to school and 1/2 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 8
- [ ] B) 48
- [ ] C) 40
- [ ] D) 72
- [ ] E) 24

---

67 Which of these values is the smallest?

- [ ] A) 13/25
- [ ] B) 2/5
- [ ] C) 9/25
- [ ] D) 3/8
- [ ] E) 46%

---

68 Work out 2 1/2 - 4/9. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1/18
- [ ] B) 1 1/9
- [ ] C) 2
- [ ] D) 2 1/18
- [ ] E) 2 1/9

---

69 Work out 1/9 × 4/5. Give your answer in its simplest form.

- [ ] A) 2/7
- [ ] B) 7 1/5
- [ ] C) 1/9
- [ ] D) 5/36
- [ ] E) 4/45

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70 Isla has a 24 km route to cycle. Isla cycles 2/3 of the route before lunch and 1/4 of the route after lunch. How many kilometres are left?

- [ ] A) 2 km
- [ ] B) 22 km
- [ ] C) 8 km
- [ ] D) 18 km
- [ ] E) 6 km

---

71 Work out 1/5 + 1/6. Give your answer as a fraction in its simplest form.

- [ ] A) 1/30
- [ ] B) 2/11
- [ ] C) 1/3
- [ ] D) 1/15
- [ ] E) 11/30

---

72 Work out 2 1/6 ÷ 2 1/2. Give your answer in its simplest form.

- [ ] A) 1 1/2
- [ ] B) 13/15
- [ ] C) 1 2/13
- [ ] D) 12/65
- [ ] E) 5 5/12

---

73 Sophie has £132. Sophie spends 1/4 of the money on a book and 1/3 of the money on a game. How much money is left?

- [ ] A) £66
- [ ] B) £77
- [ ] C) £88
- [ ] D) £55
- [ ] E) £33

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74 Which of these values is the greatest?

- [ ] A) 0.545
- [ ] B) 0.755
- [ ] C) 9/20
- [ ] D) 3/4
- [ ] E) 0.455

---

75 Work out 7/8 - 1/6. Give your answer as a fraction in its simplest form.

- [ ] A) 1/4
- [ ] B) 2/3
- [ ] C) 1/8
- [ ] D) 17/24
- [ ] E) 3/4

---

76 Work out 1 3/4 ÷ 1 7/9. Give your answer in its simplest form.

- [ ] A) 23/36
- [ ] B) 9/28
- [ ] C) 63/64
- [ ] D) 1 1/63
- [ ] E) 3 1/9

---

77 Freddie has £96. Freddie spends 1/6 of the money on a book, then 1/4 of the money that remains on lunch. How much money is left?

- [ ] A) £80
- [ ] B) £72
- [ ] C) £36
- [ ] D) £56
- [ ] E) £60

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78 Work out 8/9 + 3/7. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1 20/63
- [ ] B) 1 1/3
- [ ] C) 11/63
- [ ] D) 11/16
- [ ] E) 1 19/63

---

79 Work out 1/5 ÷ 1/2. Give your answer in its simplest form.

- [ ] A) 1/5
- [ ] B) 2/5
- [ ] C) 1/7
- [ ] D) 10
- [ ] E) 2 1/2

---

80 Which of these values is the smallest?

- [ ] A) 0.575
- [ ] B) 0.465
- [ ] C) 52%
- [ ] D) 0.375
- [ ] E) 0.525

---

81 Work out 1 5/6 - 4/7. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1 5/21
- [ ] B) 7/13
- [ ] C) 1 11/42
- [ ] D) 1 2/7
- [ ] E) 1/6

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82 Work out 2/5 × 4/5. Give your answer in its simplest form.

- [ ] A) 1/2
- [ ] B) 2
- [ ] C) 1 1/5
- [ ] D) 6/25
- [ ] E) 8/25

---

83 Which of these values is the smallest?

- [ ] A) 17/40
- [ ] B) 23/40
- [ ] C) 0.535
- [ ] D) 0.475
- [ ] E) 0.5

---

84 Work out 2/3 + 1 1/12. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1
- [ ] B) 1 2/3
- [ ] C) 1 5/6
- [ ] D) 1 3/4
- [ ] E) 5/12

---

85 Work out 4/9 ÷ 3/8. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 1/6
- [ ] B) 1 5/27
- [ ] C) 12/17
- [ ] D) 27/32
- [ ] E) 7/72

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86 A laptop costs £540 before VAT is added. VAT is charged at 20%. Calculate the total price of the laptop including VAT.

(2)

---

87 Will has a 450 km route to cycle. Will cycles 2/3 of the route before lunch and 2/5 of the distance that is left after lunch. How many kilometres are left?

- ☐ A) 90 km
- ☐ B) 60 km
- ☐ C) 270 km
- ☐ D) 150 km
- ☐ E) 360 km

---

88 Which of these values is the greatest?

- ☐ A) 0.39
- ☐ B) 50%
- ☐ C) 0.685
- ☐ D) 0.79
- ☐ E) 0.585

---

89 Work out 3/4 + 3/5. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- ☐ A) 1 3/10
- ☐ B) 1 7/20
- ☐ C) 2/3
- ☐ D) 3/10
- ☐ E) 9/20

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90 There are 200 pupils in a year group. 1/5 of them walk to school and 3/4 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 40
- [ ] B) 160
- [ ] C) 10
- [ ] D) 190
- [ ] E) 50

---

91 Which of these values is the greatest?

- [ ] A) 27/40
- [ ] B) 46%
- [ ] C) 37%
- [ ] D) 67%
- [ ] E) 0.375

---

92 Work out 4/5 + 1/3. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 4/15
- [ ] B) 1 1/15
- [ ] C) 1/3
- [ ] D) 1 1/5
- [ ] E) 1 2/15

---

93 Work out 1 8/9 × 1 2/5. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 3 13/45
- [ ] B) 8/15
- [ ] C) 1 22/63
- [ ] D) 2 29/45
- [ ] E) 63/85

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94 There are 150 pupils in a year group. 1/2 of them walk to school and 1/5 of them cycle. The rest take the bus. How many take the bus?

- ☐ A) 15
- ☐ B) 105
- ☐ C) 45
- ☐ D) 75
- ☐ E) 60

---

95 Which of these values is the greatest?

- ☐ A) 26%
- ☐ B) 0.655
- ☐ C) 0.365
- ☐ D) 0.25
- ☐ E) 56%

---

96 The price of a jacket is £48. The price is increased by 25%. Calculate the new price of the jacket.

(3)

---

97 Work out 8/9 × 3/10. Give your answer in its simplest form.

- ☐ A) 27/80
- ☐ B) 1 5/19
- ☐ C) 1 17/90
- ☐ D) 4/15
- ☐ E) 2 26/27

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98 Kwame has a 240 km route to cycle. Kwame cycles 1/6 of the route before lunch and 3/5 of the route after lunch. How many kilometres are left?

- [ ] A) 80 km
- [ ] B) 56 km
- [ ] C) 184 km
- [ ] D) 200 km
- [ ] E) 96 km

---

99 Which of these values is the smallest?

- [ ] A) 40%
- [ ] B) 0.445
- [ ] C) 60%
- [ ] D) 46%
- [ ] E) 50%

---

100 Work out 13/15 + 1 1/2. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 8/15
- [ ] B) 2 1/3
- [ ] C) 1 3/10
- [ ] D) 2 2/5
- [ ] E) 2 11/30

---

101 Work out 3/4 ÷ 1/6. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 3/10
- [ ] B) 2/9
- [ ] C) 1/8
- [ ] D) 4 1/2
- [ ] E) 8

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102 Ben has £110. Ben spends 2/5 of the money on a book and 1/2 of the money on a game. How much money is left?

- ☐ A) £33
- ☐ B) £66
- ☐ C) £55
- ☐ D) £99
- ☐ E) £11

---

103 Which of these values is the smallest?

- ☐ A) 0.53
- ☐ B) 0.325
- ☐ C) 0.485
- ☐ D) 43%
- ☐ E) 2/5

---

104 Work out 1/5 × 1/3. Give your answer in its simplest form.

- ☐ A) 1/15
- ☐ B) 2/15
- ☐ C) 1/8
- ☐ D) 1 2/3
- ☐ E) 3/5

---

105 A bicycle normally costs £260. In a sale, the price is reduced by 15%. Calculate the sale price of the bicycle.

(3)

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106 There are 48 pupils in a year group. 1/4 of them walk to school. 1/3 of the others cycle. The rest take the bus. How many take the bus?

- [ ] A) 36
- [ ] B) 24
- [ ] C) 32
- [ ] D) 12
- [ ] E) 20

---

107 Which of these values is the greatest?

- [ ] A) 6/25
- [ ] B) 0.5
- [ ] C) 17/40
- [ ] D) 0.32
- [ ] E) 52%

---

108 Work out 4/5 - 1/3. Give your answer as a fraction in its simplest form.

- [ ] A) 4/15
- [ ] B) 8/15
- [ ] C) 7/15
- [ ] D) 1/5
- [ ] E) 2/5

---

109 Work out 1 1/2 × 1 8/9. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 1 1/9
- [ ] B) 27/34
- [ ] C) 1 7/27
- [ ] D) 2 5/6
- [ ] E) 3 7/18

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110 There are 225 pupils in a year group. 3/5 of them walk to school and 1/5 of them cycle. The rest take the bus. How many take the bus?

- [ ] A) 45
- [ ] B) 72
- [ ] C) 90
- [ ] D) 180
- [ ] E) 18

---

111 Work out 4/9 - 1/3. Give your answer as a fraction in its simplest form.

- [ ] A) 1/9
- [ ] B) 1/3
- [ ] C) 2/9
- [ ] D) 4/27
- [ ] E) 1/4

---

112 Work out 2 1/2 × 1/2. Give your answer in its simplest form, as a mixed number if it is greater than 1.

- [ ] A) 1 1/2
- [ ] B) 3
- [ ] C) 5
- [ ] D) 1 1/4
- [ ] E) 1/5

---

113 Grace has £900. Grace spends 2/5 of the money on a book, then 1/3 of the money that remains on lunch. How much money is left?

- [ ] A) £240
- [ ] B) £360
- [ ] C) £540
- [ ] D) £600
- [ ] E) £180

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114 Which of these values is the greatest?

- [ ] A) 2/5
- [ ] B) 0.685
- [ ] C) 48%
- [ ] D) 50%
- [ ] E) 88%

---

115 Work out 1 5/7 - 1/3. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- [ ] A) 1 8/21
- [ ] B) 4/7
- [ ] C) 1 1/3
- [ ] D) 11/21
- [ ] E) 1 3/7

---

116 Work out 1/2 × 3/4. Give your answer in its simplest form.

- [ ] A) 2/3
- [ ] B) 1/2
- [ ] C) 1 1/2
- [ ] D) 1 1/4
- [ ] E) 3/8

---

117 Which of these values is the smallest?

- [ ] A) 0.34
- [ ] B) 25%
- [ ] C) 0.355
- [ ] D) 0.375
- [ ] E) 2/5

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118 Work out 1/8 + 1 2/3. Give your answer as a fraction in its simplest form, or a mixed number if it is greater than 1.

- ☐ A) 1 5/6
- ☐ B) 6/11
- ☐ C) 1/4
- ☐ D) 1 19/24
- ☐ E) 1 3/4

---

119 Work out 5/8 ÷ 3/4. Give your answer in its simplest form.

- ☐ A) 1/4
- ☐ B) 1 1/4
- ☐ C) 1 1/5
- ☐ D) 5/6
- ☐ E) 15/32

---

120 A charity receives a donation of £3600. 5/12 of the money is spent on food parcels. Of the money remaining, 35% is spent on heating, and the rest is saved. Calculate the amount of money that is saved.

(4)

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Mark scheme · 2.2 Fractions, Decimals and Percentages: 2-hour Pack

Question 1

D cao (2 1/14); common denominator 14; result 2 1/14 **B1**

Answer: D) 2 1/14

Question 2

C cao (1/16); 5/8 × 1/10 = 1/16 **B1**

Answer: C) 1/16

Question 3

D cao (50%); convert every value to a decimal and compare **B1**

Answer: D) 50%

Question 4

A cao (1/2); common denominator 10; result 1/2 **B1**

Answer: A) 1/2

Question 5

B cao (2 7/10); 9/10 ÷ 1/3 = 2 7/10 **B1**

Answer: B) 2 7/10

Question 6

C cao (£15); work out each fraction of the amount and subtract **B1**

Answer: C) £15

Question 7

B cao (0.355); convert every value to a decimal and compare **B1**

Answer: B) 0.355

Question 8

D cao (19/24); common denominator 24; result 19/24 **B1**

Answer: D) 19/24

Question 9

A cao (9/20); 1/2 × 9/10 = 9/20 **B1**

Answer: A) 9/20

Question 10

C cao (40%); convert every value to a decimal and compare **B1**

Answer: C) 40%

Question 11

B cao (0.59); convert every value to a decimal and compare **B1**

Answer: B) 0.59

Question 12

C cao (7/10); common denominator 10; result 7/10 **B1**

Answer: C) 7/10

Question 13

A cao (3 3/4); 5/8 ÷ 1/6 = 3 3/4 **B1**

Answer: A) 3 3/4

Question 14

B cao (£5); work out each fraction of the amount and subtract **B1**

Answer: B) £5

Question 15

E cao (45%); convert every value to a decimal and compare **B1**

Answer: E) 45%

Question 16

D cao (3/10); common denominator 10; result 3/10 **B1**

Answer: D) 3/10

Question 17

D cao (48); work out each fraction of the amount and subtract **B1**

Answer: D) 48

Question 18

E cao (0.375); convert every value to a decimal and compare **B1**

Answer: E) 0.375

Question 19

C cao (5/6); common denominator 6; result 5/6 **B1**

Answer: C) 5/6

Question 20

A cao (3/8); 1/4 ÷ 2/3 = 3/8 **B1**

Answer: A) 3/8

Question 21

D cao (21/40); common denominator 40; result 21/40 **B1**

Answer: D) 21/40

Question 22

B cao (£30); work out each fraction of the amount and subtract **B1**

Answer: B) £30

Question 23

A cao (44%); convert every value to a decimal and compare **B1**

Answer: A) 44%

Question 24

D cao (1/15); 2/3 × 1/10 = 1/15 **B1**

Answer: D) 1/15

Question 25

C cao (£90); work out each fraction of the amount and subtract **B1**

Answer: C) £90

Question 26

B cao (50%); convert every value to a decimal and compare **B1**

Answer: B) 50%

Question 27

D cao (2); 4/5 ÷ 2/5 = 2 **B1**

Answer: D) 2

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Question 28

E cao (200); work out each fraction of the amount and subtract **B1**

Answer: E) 200

Question 29

A cao (2/5); convert every value to a decimal and compare **B1**

Answer: A) 2/5

Question 30

B cao (1 1/10); common denominator 10; result 1 1/10 **B1**

Answer: B) 1 1/10

Question 31

D cao (5/6); 1/2 ÷ 3/5 = 5/6 **B1**

Answer: D) 5/6

Question 32

C cao (35); work out each fraction of the amount and subtract **B1**

Answer: C) 35

Question 33

A cao (0.5); convert every value to a decimal and compare **B1**

Answer: A) 0.5

Question 34

E cao (7/30); common denominator 30; result 7/30 **B1**

Answer: E) 7/30

Question 35

D cao (4/27); 1/3 × 4/9 = 4/27 **B1**

Answer: D) 4/27

Question 36

B cao (£330); work out each fraction of the amount and subtract **B1**

Answer: B) £330

Question 37

E cao (1 1/4); common denominator 4; result 1 1/4 **B1**

Answer: E) 1 1/4

Question 38

A cao (4 1/2); 9/10 ÷ 1/5 = 4 1/2 **B1**

Answer: A) 4 1/2

Question 39

E cao (35 km); work out each fraction of the amount and subtract **B1**

Answer: E) 35 km

Question 40

A cao (550 km); work out each fraction of the amount and subtract **B1**

Answer: A) 550 km

Question 41

B cao (17/40); convert every value to a decimal and compare **B1**

Answer: B) 17/40

Question 42

E cao (7/30); common denominator 30; result 7/30 **B1**

Answer: E) 7/30

Question 43

D cao (2/9); 2/3 × 1/3 = 2/9 **B1**

Answer: D) 2/9

Question 44

D cao (0.6); convert every value to a decimal and compare **B1**

Answer: D) 0.6

Question 45

C cao (4/5); common denominator 10; result 4/5 **B1**

Answer: C) 4/5

Question 46

E cao (2/15); 4/9 × 3/10 = 2/15 **B1**

Answer: E) 2/15

Question 47

A cao (£24); work out each fraction of the amount and subtract **B1**

Answer: A) £24

Question 48

B cao (0.38); convert every value to a decimal and compare **B1**

Answer: B) 0.38

Question 49

C cao (0.24); convert every value to a decimal and compare **B1**

Answer: C) 0.24

Question 50

B cao (27/40); common denominator 40; result 27/40 **B1**

Answer: B) 27/40

Question 51

D cao (11); work out each fraction of the amount and subtract **B1**

Answer: D) 11

Question 52

E cao (1/2); convert every value to a decimal and compare **B1**

Answer: E) 1/2

Question 53

C cao (7/10); common denominator 10; result 7/10 **B1**

Answer: C) 7/10

Question 54

B cao (£30); work out each fraction of the amount and subtract **B1**

Answer: B) £30

Question 55

E cao (0.575); convert every value to a decimal and compare **B1**

Answer: E) 0.575

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Question 56

D cao (1 11/60); common denominator 60; result 1 11/60 **B1**

Answer: D) 1 11/60

Question 57

E cao (1/3); common denominator 12; result 1/3 **B1**

Answer: E) 1/3

Question 58

B cao (1/7); 1/2 ÷ 7/2 = 1/7 **B1**

Answer: B) 1/7

Question 59

D cao (15); work out each fraction of the amount and subtract **B1**

Answer: D) 15

Question 60

A cao (35%); convert every value to a decimal and compare **B1**

Answer: A) 35%

Question 61

C cao (3 5/12); common denominator 12; result 3 5/12 **B1**

Answer: C) 3 5/12

Question 62

D cao (1/8); 1/2 × 1/4 = 1/8 **B1**

Answer: D) 1/8

Question 63

A cao (110); work out each fraction of the amount and subtract **B1**

Answer: A) 110

Question 64

B cao (3 27/28); common denominator 28; result 3 27/28 **B1**

Answer: B) 3 27/28

Question 65

B cao (1/9); 8/9 × 1/8 = 1/9 **B1**

Answer: B) 1/9

Question 66

A cao (8); work out each fraction of the amount and subtract **B1**

Answer: A) 8

Question 67

C cao (9/25); convert every value to a decimal and compare **B1**

Answer: C) 9/25

Question 68

D cao (2 1/18); common denominator 18; result 2 1/18 **B1**

Answer: D) 2 1/18

Question 69

E cao (4/45); 1/9 × 4/5 = 4/45 **B1**

Answer: E) 4/45

Question 70

A cao (2 km); work out each fraction of the amount and subtract **B1**

Answer: A) 2 km

Question 71

E cao (11/30); common denominator 30; result 11/30 **B1**

Answer: E) 11/30

Question 72

B cao (13/15); 13/6 ÷ 5/2 = 13/15 **B1**

Answer: B) 13/15

Question 73

D cao (£55); work out each fraction of the amount and subtract **B1**

Answer: D) £55

Question 74

B cao (0.755); convert every value to a decimal and compare **B1**

Answer: B) 0.755

Question 75

D cao (17/24); common denominator 24; result 17/24 **B1**

Answer: D) 17/24

Question 76

C cao (63/64); 7/4 ÷ 16/9 = 63/64 **B1**

Answer: C) 63/64

Question 77

E cao (£60); work out each fraction of the amount and subtract **B1**

Answer: E) £60

Question 78

A cao (1 20/63); common denominator 63; result 1 20/63 **B1**

Answer: A) 1 20/63

Question 79

B cao (2/5); 1/5 ÷ 1/2 = 2/5 **B1**

Answer: B) 2/5

Question 80

D cao (0.375); convert every value to a decimal and compare **B1**

Answer: D) 0.375

Question 81

C cao (1 11/42); common denominator 42; result 1 11/42 **B1**

Answer: C) 1 11/42

Question 82

E cao (8/25); 2/5 × 4/5 = 8/25 **B1**

Answer: E) 8/25

Question 83

A cao (17/40); convert every value to a decimal and compare **B1**

Answer: A) 17/40

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Question 84

D cao (1 3/4); common denominator 12; result 1 3/4 **B1**

Answer: D) 1 3/4

Question 85

B cao (1 5/27); 4/9 ÷ 3/8 = 1 5/27 **B1**

Answer: B) 1 5/27

Question 86

20% of 540 = 108 seen, or 540 x 1.2 oe **M1**

648 cao **A1**

Answer: £648

Question 87

A cao (90 km); work out each fraction of the amount and subtract **B1**

Answer: A) 90 km

Question 88

D cao (0.79); convert every value to a decimal and compare **B1**

Answer: D) 0.79

Question 89

B cao (1 7/20); common denominator 20; result 1 7/20 **B1**

Answer: B) 1 7/20

Question 90

C cao (10); work out each fraction of the amount and subtract **B1**

Answer: C) 10

Question 91

A cao (27/40); convert every value to a decimal and compare **B1**

Answer: A) 27/40

Question 92

E cao (1 2/15); common denominator 15; result 1 2/15 **B1**

Answer: E) 1 2/15

Question 93

D cao (2 29/45); 17/9 × 7/5 = 2 29/45 **B1**

Answer: D) 2 29/45

Question 94

C cao (45); work out each fraction of the amount and subtract **B1**

Answer: C) 45

Question 95

B cao (0.655); convert every value to a decimal and compare **B1**

Answer: B) 0.655

Question 96

25% of 48 = 12 oe **M1**

48 + 12 (dependent on previous method) **dM1**

60 cao **A1**

Answer: £60

Question 97

D cao (4/15); 8/9 × 3/10 = 4/15 **B1**

Answer: D) 4/15

Question 98

B cao (56 km); work out each fraction of the amount and subtract **B1**

Answer: B) 56 km

Question 99

A cao (40%); convert every value to a decimal and compare **B1**

Answer: A) 40%

Question 100

E cao (2 11/30); common denominator 30; result 2 11/30 **B1**

Answer: E) 2 11/30

Question 101

D cao (4 1/2); 3/4 ÷ 1/6 = 4 1/2 **B1**

Answer: D) 4 1/2

Question 102

E cao (£11); work out each fraction of the amount and subtract **B1**

Answer: E) £11

Question 103

B cao (0.325); convert every value to a decimal and compare **B1**

Answer: B) 0.325

Question 104

A cao (1/15); 1/5 × 1/3 = 1/15 **B1**

Answer: A) 1/15

Question 105

15% of 260 = 39 oe **M1**

260 - 39 (dependent on previous method) **dM1**

221 cao **A1**

Answer: £221

Question 106

B cao (24); work out each fraction of the amount and subtract **B1**

Answer: B) 24

Question 107

E cao (52%); convert every value to a decimal and compare **B1**

Answer: E) 52%

Question 108

C cao (7/15); common denominator 15; result 7/15 **B1**

Answer: C) 7/15

Question 109

D cao (2 5/6); 3/2 × 17/9 = 2 5/6 **B1**

Answer: D) 2 5/6

Question 110

A cao (45); work out each fraction of the amount and subtract **B1**

Answer: A) 45

Question 111

A cao (1/9); common denominator 9; result 1/9 **B1**

Answer: A) 1/9

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Question 112

D cao (1 1/4); 5/2 × 1/2 = 1 1/4 **B1**

Answer: D) 1 1/4

Question 113

B cao (£360); work out each fraction of the amount and subtract **B1**

Answer: B) £360

Question 114

E cao (88%); convert every value to a decimal and compare **B1**

Answer: E) 88%

Question 115

A cao (1 8/21); common denominator 21; result 1 8/21 **B1**

Answer: A) 1 8/21

Question 116

E cao (3/8); 1/2 × 3/4 = 3/8 **B1**

Answer: E) 3/8

Question 117

B cao (25%); convert every value to a decimal and compare **B1**

Answer: B) 25%

Question 118

D cao (1 19/24); common denominator 24; result 1 19/24 **B1**

Answer: D) 1 19/24

Question 119

D cao (5/6); 5/8 ÷ 3/4 = 5/6 **B1**

Answer: D) 5/6

Question 120

5/12 x 3600 = 1500 (food parcels) **M1**

3600 - 1500 = 2100 (remainder, dependent on previous method) **M1**

35% of 2100 = 735 (heating, dependent on previous method) **M1**

1365 cao **A1**

Answer: £1365

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