2.18 Statistics, Probability and Data Depth: 1-hour Pack

ISEB CE 13+ Mathematics · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The grouped table shows the masses, x kg, of some measurements, with the frequency for each class.

$40 < x \leq 45$: 2

$45 < x \leq 50$: 5

$50 < x \leq 55$: 10

$55 < x \leq 60$: 3

Calculate an estimate of the mean.

- ☐ A) 1020
- ☐ B) 52.5
- ☐ C) 51
- ☐ D) 50
- ☐ E) 48.5

---

2 The probability that Freddie's train is on time is 0.1 on Monday and 0.8 on Tuesday, independently. What is the probability that it is on time on both days?

- ☐ A) 0.26
- ☐ B) 0.08
- ☐ C) 0.02
- ☐ D) 0.18
- ☐ E) 0.9

---

3 3 fair coins are tossed. What is the probability of getting exactly 0 heads? Give your answer as a fraction in its simplest form.

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

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4 The mean of 5 numbers is 8. Another number, 14, is added to the list. What is the mean of all 6 numbers?

- [ ] A) 9
- [ ] B) 10.8
- [ ] C) 22
- [ ] D) 11
- [ ] E) 31/3

---

5 The mean mark of 7 boys is 74. The mean mark of 16 girls is 51. What is the mean mark of all 23 together?

- [ ] A) 59
- [ ] B) 67
- [ ] C) 58
- [ ] D) 667
- [ ] E) 30.192

---

6 The grouped table shows the masses, x kg, of some measurements, with the frequency for each class.

$0 < x \leq 5$: 5
$5 < x \leq 10$: 10
$10 < x \leq 15$: 5
$15 < x \leq 20$: 5

Calculate an estimate of the mean.

- [ ] A) 7
- [ ] B) 12
- [ ] C) 6.25
- [ ] D) 9.5
- [ ] E) 7.5

---

7 3 fair coins are tossed. What is the probability of getting exactly 3 heads? Give your answer as a fraction in its simplest form.

- [ ] A) 1/3
- [ ] B) 7/8
- [ ] C) 1/4
- [ ] D) 1/8
- [ ] E) 1/6

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8 The mean of 4 numbers is 30. 3 of the numbers are 35, 23, 37. What is the other number?

- [ ] A) 26
- [ ] B) 25
- [ ] C) -5
- [ ] D) 215
- [ ] E) 24

---

9 The mean score of 19 Year 8 pupils is 52. The mean score of 17 Year 9 pupils is 88. What is the mean score of all 36 together?

- [ ] A) 1242
- [ ] B) 18
- [ ] C) 71
- [ ] D) 70
- [ ] E) 69

---

10 The grouped table shows the heights, x cm, of some measurements, with the frequency for each class.

$10 < x \leq 15$: 13
$15 < x \leq 20$: 2
$20 < x \leq 25$: 13
$25 < x \leq 30$: 12

Calculate an estimate of the mean.

- [ ] A) 20.5
- [ ] B) 10
- [ ] C) 12.5
- [ ] D) 18
- [ ] E) 23

---

11 The probability that Lucy's train is on time is 0.7 on Monday and 0.1 on Tuesday, independently. What is the probability that it is late on both days?

- [ ] A) 0.27
- [ ] B) 0.8
- [ ] C) 0.34
- [ ] D) 0.66
- [ ] E) 0.07

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12 4 fair coins are tossed. What is the probability of getting exactly 2 heads? Give your answer as a fraction in its simplest form.

- [ ] A) 7/16
- [ ] B) 3/4
- [ ] C) 5/8
- [ ] D) 3/8
- [ ] E) 1/2

---

13 The mean of 4 numbers is 25. 3 of the numbers are 21, 20, 21. What is the other number?

- [ ] A) 39
- [ ] B) 162
- [ ] C) 13
- [ ] D) 25
- [ ] E) 38

---

14 The mean mass in kg of 18 cats is 74. The mean mass in kg of 5 dogs is 51. What is the mean mass in kg of all 23 together?

- [ ] A) 56
- [ ] B) 30.192
- [ ] C) 69
- [ ] D) 11.5
- [ ] E) 70

---

15 The grouped table shows the times, x seconds, of some measurements, with the frequency for each class.

$40 < x \leq 50$: 5

$50 < x \leq 60$: 3

$60 < x \leq 70$: 7

$70 < x \leq 80$: 5

Calculate an estimate of the mean.

- [ ] A) 66
- [ ] B) 61
- [ ] C) 60
- [ ] D) 1220
- [ ] E) 5

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16 A bag has 3 red and 7 blue counters. Jack takes two counters at random, one after the other, without putting the first back. What is the probability that they are both red? Give your answer as a fraction in its simplest form.

- ☐ A) 21/50
- ☐ B) 7/30
- ☐ C) 7/15
- ☐ D) 9/100
- ☐ E) 1/15

---

17 3 fair coins are tossed. What is the probability of getting exactly 0 heads? Give your answer as a fraction in its simplest form.

- ☐ A) 7/8
- ☐ B) 1/8
- ☐ C) 1/4
- ☐ D) 1/3
- ☐ E) 1/6

---

18 The mean of 6 numbers is 24. Another number, 38, is added to the list. What is the mean of all 7 numbers?

- ☐ A) 206/7
- ☐ B) 91/3
- ☐ C) 25
- ☐ D) 26
- ☐ E) 62

---

19 The mean mark of 9 boys is 64. The mean mark of 20 girls is 35. What is the mean mark of all 29 together?

- ☐ A) 44
- ☐ B) 45
- ☐ C) 638
- ☐ D) 49.5
- ☐ E) 55

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20 The grouped table shows the heights, x cm, of some measurements, with the frequency for each class.

$20 < x \leq 30$: 13

$30 < x \leq 40$: 7

$40 < x \leq 50$: 8

$50 < x \leq 60$: 12

Calculate an estimate of the mean.

- [ ] A) 34.75
- [ ] B) 10
- [ ] C) 39.75
- [ ] D) 44.75
- [ ] E) 40

---

21 The probability that Dev's train is on time is 0.6 on Monday and 0.4 on Tuesday, independently. What is the probability that it is on time on both days?

- [ ] A) 0.48
- [ ] B) 0.52
- [ ] C) 0.36
- [ ] D) 0.24
- [ ] E) 0.76

---

22 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 10? Give your answer as a fraction in its simplest form.

- [ ] A) 1/18
- [ ] B) 1/6
- [ ] C) 1/11
- [ ] D) 1/4
- [ ] E) 1/12

---

23 The mean of 4 numbers is 30. 3 of the numbers are 37, 38, 35. What is the other number?

- [ ] A) 5
- [ ] B) 10
- [ ] C) -20
- [ ] D) 11
- [ ] E) 9

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24 The mean mass in kg of 7 cats is 63. The mean mass in kg of 11 dogs is 45. What is the mean mass in kg of all 18 together?

- [ ] A) 52
- [ ] B) 54
- [ ] C) 53
- [ ] D) 9
- [ ] E) 26.25

---

25 The grouped table shows the masses, x kg, of some measurements, with the frequency for each class.

$40 < x \leq 60$: 14

$60 < x \leq 80$: 8

$80 < x \leq 100$: 14

$100 < x \leq 120$: 14

Calculate an estimate of the mean.

- [ ] A) 12.5
- [ ] B) 91.2
- [ ] C) 81.2
- [ ] D) 71.2
- [ ] E) 80

---

26 The probability that Oliver's train is on time is 0.6 on Monday and 0.1 on Tuesday, independently. What is the probability that it is on time on both days?

- [ ] A) 0.42
- [ ] B) 0.7
- [ ] C) 0.36
- [ ] D) 0.06
- [ ] E) 0.3

---

27 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 11? Give your answer as a fraction in its simplest form.

- [ ] A) 1/11
- [ ] B) 1/18
- [ ] C) 1/9
- [ ] D) 1/6
- [ ] E) 17/18

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28 The mean of 4 numbers is 20. Another number, 25, is added to the list. What is the mean of all 5 numbers?

- [ ] A) 22.5
- [ ] B) 26.25
- [ ] C) 21
- [ ] D) 25
- [ ] E) 11

---

29 The mean mark of 20 boys is 43. The mean mark of 12 girls is 59. What is the mean mark of all 32 together?

- [ ] A) 51
- [ ] B) 784
- [ ] C) 16
- [ ] D) 50
- [ ] E) 49

---

30 The grouped table shows the heights, x cm, of some measurements, with the frequency for each class.

$40 < x \leq 60$: 8
$60 < x \leq 80$: 6
$80 < x \leq 100$: 2
$100 < x \leq 120$: 9

Calculate an estimate of the mean.

- [ ] A) 79.6
- [ ] B) 1990
- [ ] C) 89.6
- [ ] D) 110
- [ ] E) 80

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31 A bag has 7 red and 2 blue counters. Rhys takes two counters at random, one after the other, without putting the first back. What is the probability that they are both red? Give your answer as a fraction in its simplest form.

- [ ] A) 49/81
- [ ] B) 14/27
- [ ] C) 28/81
- [ ] D) 7/9
- [ ] E) 7/12

---

32 Two fair six-sided dice are rolled and the scores are multiplied. What is the probability that the product is 3? Give your answer as a fraction in its simplest form.

- [ ] A) 1/12
- [ ] B) 17/18
- [ ] C) 1/18
- [ ] D) 1/6
- [ ] E) 1/9

---

33 The mean of 6 numbers is 12. 5 of the numbers are 6, 16, 18, 6, 5. What is the other number?

- [ ] A) 10.5
- [ ] B) 123
- [ ] C) 10.2
- [ ] D) 21
- [ ] E) 12

---

34 The mean mark of 15 boys is 63. The mean mark of 20 girls is 49. What is the mean mark of all 35 together?

- [ ] A) 55
- [ ] B) 56
- [ ] C) 57
- [ ] D) 17.5
- [ ] E) 27.5625

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35 The probability that Amira's train is on time is 0.3 on Monday and 0.2 on Tuesday, independently. What is the probability that it is on time on both days?

- [ ] A) 0.24
- [ ] B) 0.06
- [ ] C) 0.62
- [ ] D) 0.5
- [ ] E) 0.94

---

36 The mean of 5 numbers is 25. 4 of the numbers are 31, 21, 23, 19. What is the other number?

- [ ] A) 6
- [ ] B) 23.5
- [ ] C) 31
- [ ] D) 32
- [ ] E) 25

---

37 The mean score of 11 Year 8 pupils is 53. The mean score of 17 Year 9 pupils is 81. What is the mean score of all 28 together?

- [ ] A) 14
- [ ] B) 980
- [ ] C) 71
- [ ] D) 70
- [ ] E) 64

---

38 The grouped table shows the heights, x cm, of some measurements, with the frequency for each class.

$0 < x \leq 10$: 8

$10 < x \leq 20$: 3

$20 < x \leq 30$: 12

$30 < x \leq 40$: 5

$40 < x \leq 50$: 12

Calculate an estimate of the mean.

- [ ] A) 27.5
- [ ] B) 32.5
- [ ] C) 22.5
- [ ] D) 1100
- [ ] E) 25

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39 A bag has 7 red and 8 blue counters. Isla takes two counters at random, one after the other, without putting the first back. What is the probability that they are both red? Give your answer as a fraction in its simplest form.

- ☐ A) 14/75
- ☐ B) 4/15
- ☐ C) 112/225
- ☐ D) 7/15
- ☐ E) 1/5

---

40 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 10? Give your answer as a fraction in its simplest form.

- ☐ A) 1/12
- ☐ B) 1/18
- ☐ C) 1/11
- ☐ D) 1/9
- ☐ E) 1/4

---

41 The mean of 4 numbers is 23. 3 of the numbers are 19, 15, 16. What is the other number?

- ☐ A) 43
- ☐ B) 23
- ☐ C) 42
- ☐ D) 41
- ☐ E) 142

---

42 The mean mark of 5 boys is 72. The mean mark of 11 girls is 40. What is the mean mark of all 16 together?

- ☐ A) 35
- ☐ B) 400
- ☐ C) 56
- ☐ D) 50
- ☐ E) 51

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43 The grouped table shows the times, x seconds, of some measurements, with the frequency for each class.

$40 < x \leq 50$: 7

$50 < x \leq 60$: 14

$60 < x \leq 70$: 9

$70 < x \leq 80$: 6

$80 < x \leq 90$: 14

Calculate an estimate of the mean.

- [ ] A) 10
- [ ] B) 66.2
- [ ] C) 65
- [ ] D) 61.2
- [ ] E) 71.2

---

44 The probability that Callum's train is on time is 0.3 on Monday and 0.7 on Tuesday, independently. What is the probability that it is late on both days?

- [ ] A) 0.58
- [ ] B) 0.42
- [ ] C) 0.79
- [ ] D) 0.09
- [ ] E) 0.21

---

45 4 fair coins are tossed. What is the probability of getting exactly 2 heads? Give your answer as a fraction in its simplest form.

- [ ] A) 7/16
- [ ] B) 3/8
- [ ] C) 5/8
- [ ] D) 3/4
- [ ] E) 1/4

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46 The mean of 7 numbers is 10. Another number, 10, is added to the list. What is the mean of all 8 numbers?

- [ ] A) 7.5
- [ ] B) 11.25
- [ ] C) 80/7
- [ ] D) 10
- [ ] E) 20

---

47 The mean score of 20 Year 8 pupils is 54. The mean score of 13 Year 9 pupils is 87. What is the mean score of all 33 together?

- [ ] A) 67
- [ ] B) 70.5
- [ ] C) 16.5
- [ ] D) 68
- [ ] E) 74

---

48 The grouped table shows the times, x seconds, of some measurements, with the frequency for each class.

$40 < x \leq 60$: 8

$60 < x \leq 80$: 5

$80 < x \leq 100$: 6

$100 < x \leq 120$: 6

Calculate an estimate of the mean.

- [ ] A) 88
- [ ] B) 80
- [ ] C) 50
- [ ] D) 68
- [ ] E) 78

---

49 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 5? Give your answer as a fraction in its simplest form.

- [ ] A) 1/5
- [ ] B) 2/9
- [ ] C) 1/9
- [ ] D) 1/12
- [ ] E) 5/36

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50 The mean of 8 numbers is 27. 7 of the numbers are 21, 25, 30, 23, 30, 30, 30. What is the other number?

- [ ] A) 0
- [ ] B) 13.5
- [ ] C) 28
- [ ] D) 27
- [ ] E) 405

---

51 The mean mass in kg of 15 cats is 72. The mean mass in kg of 18 dogs is 61. What is the mean mass in kg of all 33 together?

- [ ] A) 66
- [ ] B) 1089
- [ ] C) 16.5
- [ ] D) 66.5
- [ ] E) 67

---

52 The grouped table shows the masses, x kg, of some measurements, with the frequency for each class.

$0 < x \leq 20$: 13
$20 < x \leq 40$: 7
$40 < x \leq 60$: 11
$60 < x \leq 80$: 6
$80 < x \leq 100$: 3

Calculate an estimate of the mean.

- [ ] A) 1580
- [ ] B) 39.5
- [ ] C) 50
- [ ] D) 49.5
- [ ] E) 10

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53 A bag has 8 red and 3 blue counters. Hamza takes two counters at random, one after the other, without putting the first back. What is the probability that they are both red? Give your answer as a fraction in its simplest form.

- ☐ A) 56/121
- ☐ B) 48/121
- ☐ C) 64/121
- ☐ D) 8/11
- ☐ E) 28/55

---

54 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 3? Give your answer as a fraction in its simplest form.

- ☐ A) 1/11
- ☐ B) 1/36
- ☐ C) 1/6
- ☐ D) 1/18
- ☐ E) 1/12

---

55 The mean of 4 numbers is 11. 3 of the numbers are 8, 7, 16. What is the other number?

- ☐ A) 13
- ☐ B) 11
- ☐ C) 6.5
- ☐ D) 14
- ☐ E) 12

---

56 The mean mark of 18 boys is 65. The mean mark of 9 girls is 77. What is the mean mark of all 27 together?

- ☐ A) 70
- ☐ B) 69
- ☐ C) 73
- ☐ D) 13.5
- ☐ E) 11.5

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57 The grouped table shows the masses, x kg, of some measurements, with the frequency for each class.

$0 < x \leq 10$: 8

$10 < x \leq 20$: 8

$20 < x \leq 30$: 4

$30 < x \leq 40$: 5

Calculate an estimate of the mean.

- ☐ A) 6.25
- ☐ B) 20
- ☐ C) 12.4
- ☐ D) 15
- ☐ E) 17.4

---

58 A bag has 7 red and 8 blue counters. Mei takes two counters at random, one after the other, without putting the first back. What is the probability that they are both red? Give your answer as a fraction in its simplest form.

- ☐ A) 7/15
- ☐ B) 4/15
- ☐ C) 1/5
- ☐ D) 2/5
- ☐ E) 112/225

---

59 In a survey of 45 pupils, 25 attend the Art club, 18 attend the Music club, and 8 attend both clubs. You may find it helpful to draw a Venn diagram.

(a) Find the number of pupils who attend neither club. **(2)**

.....

(b) Find the probability that a pupil chosen at random from the 45 pupils attends the Art club only, giving your answer as a fraction in its simplest form. **(2)**

.....

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60 Two fair six-sided dice are rolled and the scores are added. What is the probability that the total is 7? Give your answer as a fraction in its simplest form.

- [ ] A) 1/6
- [ ] B) 1/11
- [ ] C) 5/6
- [ ] D) 1/7
- [ ] E) 7/36

---

61 The mean of 4 numbers is 17. Another number, 27, is added to the list. What is the mean of all 5 numbers?

- [ ] A) 22.4
- [ ] B) 22
- [ ] C) 44
- [ ] D) 19
- [ ] E) 8.2

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Mark scheme · 2.18 Statistics, Probability and Data Depth: 1-hour Pack

Question 1

C cao (51); use the midpoint of each class **B1**

Answer: C) 51

Question 2

B cao (0.08); multiply along the branches; add the matching routes **B1**

Answer: B) 0.08

Question 3

E cao (1/8); list the equally likely outcomes and count the favourable ones **B1**

Answer: E) 1/8

Question 4

A cao (9); mean x number of values = total **B1**

Answer: A) 9

Question 5

C cao (58); find each total, add them, divide by the total number **B1**

Answer: C) 58

Question 6

D cao (9.5); use the midpoint of each class **B1**

Answer: D) 9.5

Question 7

D cao (1/8); list the equally likely outcomes and count the favourable ones **B1**

Answer: D) 1/8

Question 8

B cao (25); mean x number of values = total **B1**

Answer: B) 25

Question 9

E cao (69); find each total, add them, divide by the total number **B1**

Answer: E) 69

Question 10

A cao (20.5); use the midpoint of each class **B1**

Answer: A) 20.5

Question 11

A cao (0.27); multiply along the branches; add the matching routes **B1**

Answer: A) 0.27

Question 12

D cao (3/8); list the equally likely outcomes and count the favourable ones **B1**

Answer: D) 3/8

Question 13

E cao (38); mean x number of values = total **B1**

Answer: E) 38

Question 14

C cao (69); find each total, add them, divide by the total number **B1**

Answer: C) 69

Question 15

B cao (61); use the midpoint of each class **B1**

Answer: B) 61

Question 16

E cao (1/15); multiply along the branches; add the matching routes **B1**

Answer: E) 1/15

Question 17

B cao (1/8); list the equally likely outcomes and count the favourable ones **B1**

Answer: B) 1/8

Question 18

D cao (26); mean x number of values = total **B1**

Answer: D) 26

Question 19

A cao (44); find each total, add them, divide by the total number **B1**

Answer: A) 44

Question 20

C cao (39.75); use the midpoint of each class **B1**

Answer: C) 39.75

Question 21

D cao (0.24); multiply along the branches; add the matching routes **B1**

Answer: D) 0.24

Question 22

E cao (1/12); list the equally likely outcomes and count the favourable ones **B1**

Answer: E) 1/12

Question 23

B cao (10); mean x number of values = total **B1**

Answer: B) 10

Question 24

A cao (52); find each total, add them, divide by the total number **B1**

Answer: A) 52

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Question 25

C cao (81.2); use the midpoint of each class **B1**

Answer: C) 81.2

Question 26

D cao (0.06); multiply along the branches; add the matching routes **B1**

Answer: D) 0.06

Question 27

B cao (1/18); list the equally likely outcomes and count the favourable ones **B1**

Answer: B) 1/18

Question 28

C cao (21); mean x number of values = total **B1**

Answer: C) 21

Question 29

E cao (49); find each total, add them, divide by the total number **B1**

Answer: E) 49

Question 30

A cao (79.6); use the midpoint of each class **B1**

Answer: A) 79.6

Question 31

E cao (7/12); multiply along the branches; add the matching routes **B1**

Answer: E) 7/12

Question 32

C cao (1/18); list the equally likely outcomes and count the favourable ones **B1**

Answer: C) 1/18

Question 33

D cao (21); mean x number of values = total **B1**

Answer: D) 21

Question 34

A cao (55); find each total, add them, divide by the total number **B1**

Answer: A) 55

Question 35

B cao (0.06); multiply along the branches; add the matching routes **B1**

Answer: B) 0.06

Question 36

C cao (31); mean x number of values = total **B1**

Answer: C) 31

Question 37

D cao (70); find each total, add them, divide by the total number **B1**

Answer: D) 70

Question 38

A cao (27.5); use the midpoint of each class **B1**

Answer: A) 27.5

Question 39

E cao (1/5); multiply along the branches; add the matching routes **B1**

Answer: E) 1/5

Question 40

A cao (1/12); list the equally likely outcomes and count the favourable ones **B1**

Answer: A) 1/12

Question 41

C cao (42); mean x number of values = total **B1**

Answer: C) 42

Question 42

D cao (50); find each total, add them, divide by the total number **B1**

Answer: D) 50

Question 43

B cao (66.2); use the midpoint of each class **B1**

Answer: B) 66.2

Question 44

E cao (0.21); multiply along the branches; add the matching routes **B1**

Answer: E) 0.21

Question 45

B cao (3/8); list the equally likely outcomes and count the favourable ones **B1**

Answer: B) 3/8

Question 46

D cao (10); mean x number of values = total **B1**

Answer: D) 10

Question 47

A cao (67); find each total, add them, divide by the total number **B1**

Answer: A) 67

Question 48

E cao (78); use the midpoint of each class **B1**

Answer: E) 78

Question 49

C cao (1/9); list the equally likely outcomes and count the favourable ones **B1**

Answer: C) 1/9

Question 50

D cao (27); mean x number of values = total **B1**

Answer: D) 27

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Question 51

A cao (66); find each total, add them, divide by the total number **B1**

Answer: A) 66

Question 52

B cao (39.5); use the midpoint of each class **B1**

Answer: B) 39.5

Question 53

E cao (28/55); multiply along the branches; add the matching routes **B1**

Answer: E) 28/55

Question 54

D cao (1/18); list the equally likely outcomes and count the favourable ones **B1**

Answer: D) 1/18

Question 55

A cao (13); mean x number of values = total **B1**

Answer: A) 13

Question 56

B cao (69); find each total, add them, divide by the total number **B1**

Answer: B) 69

Question 57

E cao (17.4); use the midpoint of each class **B1**

Answer: E) 17.4

Question 58

C cao (1/5); multiply along the branches; add the matching routes **B1**

Answer: C) 1/5

Question 59

(a) correct regions found: Art only = 17, Music only = 10, both = 8 **M1**

(a) neither = 10 cao **A1**

(a) Answer: 10 pupils

(b) 17/45 seen, ft from part a **M1**

(b) 17/45 cao (already in simplest form) **A1**

(b) Answer: 17/45

Question 60

A cao (1/6); list the equally likely outcomes and count the favourable ones **B1**

Answer: A) 1/6

Question 61

D cao (19); mean x number of values = total **B1**

Answer: D) 19

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