9.2 Statistics: Bar Charts and Tables: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A school club survey is shown.

Boys: 19 chose Chess, 17 chose Drama
Girls: 24 chose Chess, 10 chose Drama

How many boys were surveyed?

Answer: ___

(2)

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2 A school club survey is shown.

Boys: 22 chose Football, 12 chose Netball
Girls: 27 chose Football, 10 chose Netball

How many pupils chose Football?

Answer: ___

(2)

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3 In a class of 35 pupils, 13 like tea, 22 like coffee and 5 like both.

How many pupils like neither?

Answer: ___

(2)

---

4 A pictogram uses (*) for 4 items and (half) for 2 items.

Mon: (*) (*) (*) (*) (*)
Tue: (*) (*) (*) (*) (*)
Wed: (*) (*) (*) (*)

How many whole symbols are needed to show 32 items?

Answer: ___

(2)

---

5 A pictogram uses (*) for 20 items and (half) for 10 items.

North: (*) (*) (*) (*) (half)
South: (*) (*) (*) (*) (*)
East: (*)

How many items are shown altogether?

Answer: ___

(3)

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6 A pictogram uses (*) for 10 items and (half) for 5 items.

Red: (*) (*) (*) (*) (half)
Blue: (*) (*) (*)
Green: (*) (*) (*)

How many items are shown altogether?

Answer: ___

(3)

---

7 A school club survey is shown.

Boys: 14 chose Swimming, 9 chose Tennis
Girls: 12 chose Swimming, 10 chose Tennis

How many pupils were surveyed altogether?

Answer: ___

(3)

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8 Part of a train timetable is shown.

Bridgton: 13:15
Hollin: 13:41
Dunmere: 14:01
Grange: 14:32

How many minutes does the train take to travel from Hollin to Grange?

Answer: ___ minutes

(2)

---

9 A school club survey is shown.

Boys: 13 chose Swimming, 21 chose Tennis
Girls: 26 chose Swimming, 17 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

---

10 In a class of 39 pupils, 10 like football, 8 like netball and 7 like both.

How many pupils like neither?

Answer: ___

(2)

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11 The table shows the points scored for four groups.

Cats: 83
Dogs: 65
Fish: 31
Birds: 43

How many more points were there for Cats than for Birds?

Answer: ___

(2)

---

12 The table shows the tickets sold for four groups.

Cats: 90
Dogs: 56
Fish: 12
Birds: 68

How many tickets were there for Fish and Dogs together?

Answer: ___

(2)

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13 A pictogram uses (*) for 4 items and (half) for 2 items.

Cats: (*) (*) (half)
Dogs: (*) (*) (*) (half)
Fish: (*) (*) (*) (*) (*) (half)

How many whole symbols are needed to show 20 items?

Answer: ___

(2)

---

14 The table shows the litres of rain for four groups.

Cats: 74
Dogs: 85
Fish: 22
Birds: 21

What is the difference between the highest and the lowest litres?

Answer: ___

(2)

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15 The table shows the number of books borrowed for four groups.

Mon: 90
Tue: 35
Wed: 77
Thu: 62

What is the difference between the highest and the lowest books?

Answer: ___

(2)

---

16 In a class of 26 pupils, 11 like swimming, 22 like cycling and 7 like both.

How many pupils like neither?

Answer: ___

(2)

---

17 The table shows the number of pupils for four groups.

Bus: 62
Car: 30
Walk: 86
Bike: 14

How many pupils were there for Walk and Bus together?

Answer: ___

(2)

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18 A school club survey is shown.

Boys: 27 chose Swimming, 10 chose Tennis
Girls: 25 chose Swimming, 24 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

---

19 The table shows the number of visitors for four groups.

North: 24
South: 82
East: 15
West: 44

What is the difference between the highest and the lowest visitors?

Answer: ___

(2)

---

20 A school club survey is shown.

Boys: 24 chose Swimming, 23 chose Tennis
Girls: 27 chose Swimming, 18 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

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21 Part of a train timetable is shown.

Carlow: 13:35
Grange: 14:04
Bridgton: 14:20
Dunmere: 14:55

How many minutes does the train take to travel from Carlow to Grange?

Answer: ___ minutes

(1)

---

22 A school club survey is shown.

Boys: 19 chose Chess, 7 chose Drama
Girls: 8 chose Chess, 16 chose Drama

How many pupils chose Chess?

Answer: ___

(2)

---

23 On a bar chart grid where each square stands for 1, a bar is drawn to show 5 for the value 'Books'. How many squares tall should the bar be?

(1)

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24 In a class of 38 pupils, 22 like art, 7 like music and 2 like both.

How many pupils like neither?

Answer: ___

(2)

---

25 The table shows the number of pupils for four groups.

Red: 78
Blue: 75
Green: 80
Yellow: 45

How many pupils were there for Green?

Answer: ___

(1)

---

26 The table shows the points scored for four groups.

Red: 58
Blue: 25
Green: 30
Yellow: 23

How many points were there for Green?

Answer: ___

(1)

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27 A school club survey is shown.

Boys: 20 chose Football, 14 chose Netball
Girls: 18 chose Football, 9 chose Netball

How many more pupils chose Football than Netball?

Answer: ___

(2)

---

28 The table shows the number of pupils for four groups.

Bus: 78
Car: 29
Walk: 83
Bike: 43

How many more pupils were there for Walk than for Bike?

Answer: ___

(2)

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29 The table shows the points scored for four groups.

Spring: 43
Summer: 61
Autumn: 27
Winter: 54

How many more points were there for Spring than for Autumn?

Answer: ___

(2)

---

30 Part of a train timetable is shown.

Ashby: 12:50
Fenwick: 13:29
Bridgton: 13:51
Grange: 14:27

Chloe arrives at Ashby station at 12:43.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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31 Part of a train timetable is shown.

Carlow: 11:50
Eastleigh: 12:30
Fenwick: 12:39
Bridgton: 13:02

How many minutes does the train take to travel from Fenwick to Bridgton?

Answer: ___ minutes

(2)

---

32 Here is a table showing how many biscuits were eaten each day.

Day	Biscuits
Mon	3
Tue	5
Wed	4
Thu	2
Fri	6

How many biscuits were eaten from Mon to Wed inclusive?

(1)

---

33 A school club survey is shown.

Boys: 25 chose Football, 18 chose Netball
Girls: 27 chose Football, 12 chose Netball

How many boys were surveyed?

Answer: ___

(2)

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34 The table shows the number of pupils for four groups.

Bus: 27
Car: 82
Walk: 36
Bike: 78

How many pupils were there for Bike and Walk together?

Answer: ___

(2)

---

35 A pictogram uses (*) for 4 items and (half) for 2 items.

Red: (*) (*) (half)
Blue: (*) (half)
Green: (*) (*) (*)

How many items are shown altogether?

Answer: ___

(3)

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36 Part of a train timetable is shown.

Grange: 06:20
Hollin: 06:43
Eastleigh: 07:20
Carlow: 07:27

How many minutes does the train take to travel from Eastleigh to Carlow?

Answer: ___ minutes

(2)

---

37 A school club survey is shown.

Boys: 5 chose Football, 8 chose Netball
Girls: 20 chose Football, 21 chose Netball

How many pupils chose Football?

Answer: ___

(2)

---

38 A pictogram uses (*) for 2 items and (half) for 1 items.

Mon: (*) (*) (*) (*) (*) (half)
Tue: (*) (*) (*) (*) (*) (half)
Wed: (*) (*) (*) (*) (*) (half)

How many whole symbols are needed to show 22 items?

Answer: ___

(2)

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39 The table shows the points scored for four groups.

Cats: 10
Dogs: 78
Fish: 51
Birds: 65

How many more points were there for Birds than for Cats?

Answer: ___

(2)

---

40 Part of a train timetable is shown.

Hollin: 06:10
Dunmere: 06:47
Bridgton: 07:25
Fenwick: 08:01

Mateo arrives at Bridgton station at 07:09.

How many minutes must they wait for the train?

Answer: ___ minutes

(2)

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41 A school club survey is shown.

Boys: 15 chose Swimming, 9 chose Tennis
Girls: 14 chose Swimming, 8 chose Tennis

How many more pupils chose Swimming than Tennis?

Answer: ___

(2)

---

42 The table shows the points scored for four groups.

Year 3: 74
Year 4: 90
Year 5: 84
Year 6: 68

What is the difference between the highest and the lowest points?

Answer: ___

(2)

---

43 In a class of 35 pupils, 24 like art, 8 like music and 5 like both.

How many pupils like neither?

Answer: ___

(2)

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44 In a class of 33 pupils, 26 like football, 7 like netball and 6 like both.

How many pupils like neither?

Answer: ___

(2)

---

45 The table shows the tickets sold for four groups.

Mon: 42
Tue: 89
Wed: 72
Thu: 41

What is the difference between the highest and the lowest tickets?

Answer: ___

(2)

---

46 A school club survey is shown.

Boys: 13 chose Football, 11 chose Netball
Girls: 12 chose Football, 23 chose Netball

How many boys were surveyed?

Answer: ___

(2)

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47 The table shows the number of visitors for four groups.

Bus: 9
Car: 90
Walk: 33
Bike: 42

What is the total for all four groups?

Answer: ___

(1)

---

48 A school club survey is shown.

Boys: 25 chose Art, 22 chose Music
Girls: 18 chose Art, 22 chose Music

How many pupils were surveyed altogether?

Answer: ___

(3)

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Mark scheme · 9.2 Statistics: Bar Charts and Tables: 2-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

adds both boys' values	M1
36 cao	A1

Answer: **36**

Question 2

adds the boys and girls	M1
49 cao	A1

Answer: **49**

Question 3

13 + 22 - 5 = 30 seen	M1
5 cao	A1

Answer: **5**

Question 4

divides by the key	M1
8 cao	A1

Answer: **8**

Question 5

uses the key	M1
adds the three values	M1
210 cao	A1

Answer: **210**

Question 6

uses the key	M1
adds the three values	M1
105 cao	A1

Answer: **105**

Question 7

adds the boys	M1
adds all four	M1
45 cao	A1

Answer: **45**

Question 8

finds the difference between the two times (counting on or subtracting)	M1
51 minutes cao	A1

Answer: **51 minutes**

Question 9

both totals found	M1
1 cao	A1

Answer: **1**

Question 10

10 + 8 - 7 = 11 seen	M1
28 cao	A1

Answer: **28**

Question 11

subtraction seen	M1
40 cao	A1

Answer: **40**

Question 12

addition seen	M1
68 cao	A1

Answer: **68**

Question 13

divides by the key	M1
5 cao	A1

Answer: **5**

Question 14

identifies the highest and lowest	M1
64 cao	A1

Answer: **64**

Question 15

identifies the highest and lowest	M1
55 cao	A1

Answer: **55**

Question 16

11 + 22 - 7 = 26 seen	M1
0 cao	A1

Answer: **0**

Question 17

addition seen	M1
148 cao	A1

Answer: **148**

Question 18

both totals found	M1
18 cao	A1

Answer: **18**

Question 19

identifies the highest and lowest	M1
67 cao	A1

Answer: **67**

Question 20

both totals found	M1
10 cao	A1

Answer: **10**

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Question 21

29 minutes cao — **B1**

Answer: **29 minutes**

Question 22

adds the boys and girls — **M1**

27 cao — **A1**

Answer: **27**

Question 23

5 squares cao — **B1**

Answer: **5**

Question 24

22 + 7 - 2 = 27 seen — **M1**

11 cao — **A1**

Answer: **11**

Question 25

80 cao — **B1**

Answer: **80**

Question 26

30 cao — **B1**

Answer: **30**

Question 27

both totals found — **M1**

15 cao — **A1**

Answer: **15**

Question 28

subtraction seen — **M1**

40 cao — **A1**

Answer: **40**

Question 29

subtraction seen — **M1**

16 cao — **A1**

Answer: **16**

Question 30

finds the wait between arriving and the departure time (counting on or subtracting) — **M1**

7 minutes cao — **A1**

Answer: **7 minutes**

Question 31

finds the difference between the two times (counting on or subtracting) — **M1**

23 minutes cao — **A1**

Answer: **23 minutes**

Question 32

12 cao — **B1**

Answer: **12**

Question 33

adds both boys' values — **M1**

43 cao — **A1**

Answer: **43**

Question 34

addition seen — **M1**

114 cao — **A1**

Answer: **114**

Question 35

uses the key — **M1**

adds the three values — **M1**

28 cao — **A1**

Answer: **28**

Question 36

finds the difference between the two times (counting on or subtracting) — **M1**

7 minutes cao — **A1**

Answer: **7 minutes**

Question 37

adds the boys and girls — **M1**

25 cao — **A1**

Answer: **25**

Question 38

divides by the key — **M1**

11 cao — **A1**

Answer: **11**

Question 39

subtraction seen — **M1**

55 cao — **A1**

Answer: **55**

Question 40

finds the wait between arriving and the departure time (counting on or subtracting) — **M1**

16 minutes cao — **A1**

Answer: **16 minutes**

Question 41

both totals found — **M1**

12 cao — **A1**

Answer: **12**

Question 42

identifies the highest and lowest — **M1**

22 cao — **A1**

Answer: **22**

Question 43

24 + 8 - 5 = 27 seen — **M1**

8 cao — **A1**

Answer: **8**

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Question 44

26 + 7 - 6 = 27 seen	**M1**
6 cao	**A1**

Answer: **6**

Question 45

identifies the highest and lowest	**M1**
48 cao	**A1**

Answer: **48**

Question 46

adds both boys' values	**M1**
24 cao	**A1**

Answer: **24**

Question 47

174 cao	**B1**

Answer: **174**

Question 48

adds the boys	**M1**
adds all four	**M1**
87 cao	**A1**

Answer: **87**

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