7.1 Statistics: Charts and Tally: Test Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Sam kept a tally of how many ladybirds she found in the garden.

How many ladybirds did Sam find?

Answer: ___



(1)

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2 Two classes carried out the same survey about favourite pets.

Class 2B: Dogs 8, Cats 5, Fish 2, Rabbits 4
Class 2G: Dogs 6, Cats 7, Fish 3, Rabbits 5

(a) Which class had more children who chose Cats as their favourite pet? **(1)**

Answer: ___

(b) Work out the total number of children in Class 2B who chose Dogs or Rabbits. **(2)**

Answer: ___

(c) Amir says, 'More children in total chose Fish than chose Rabbits, across both classes.' Is Amir correct? Show working to explain your answer. **(2)**

Answer: ___

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3 On a pictogram, one whole star stands for 2 pupils.

Explain how you could show 5 pupils on the pictogram.

Answer: ___

(1)

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4 A pictogram is being drawn to show the number of pets owned by 4 friends. Priya has 6 pets, Kwame has 3 pets, Isla has 5 pets and Oliver has 2 pets. Each whole symbol on the pictogram represents 2 pets.

(a) How many whole symbols are needed to show the number of pets Priya has? **(1)**

Answer: ___

(b) Kwame has an odd number of pets. Explain how you would show Kwame's pets on the pictogram. **(1)**

Answer: ___

(c) Work out the total number of pets owned by all four friends. **(2)**

Answer: ___

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5 A tally chart shows the ways of coming to school chosen by a class. In a tally, ||||/ stands for 5.

bus: ||||/ ||||/ |

car: |||

bike: ||||

walk: ||||/ |

How many chose bike?

Answer: ___

(1)

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6 A tally chart shows the number of children seen in the park. In a tally, ||||/ stands for 5.

The tally for Monday is: ||||/ ||||/ |||

How many children were seen on Monday?

Answer: ___

(1)

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7 A tally chart shows the favourite zoo animals chosen by a class. In a tally, ||||/ stands for 5.

lions: ||||/
tigers: |||
bears: ||||/ ||||/ ||
monkeys: ||||/ ||||

Which was the least popular?

Answer: ___

(1)

---

8 A tally chart shows the number of birds seen in the park. In a tally, ||||/ stands for 5.

The tally for Monday is: ||||/ ||||/ ||

How many birds were seen on Monday?

Answer: ___

(1)

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9 The pictogram shows the pets of a class. Each (*) stands for 10 children.

cats: (*) (*)
dogs: (*) (*) (*) (*) (*)
fish: (*)

How many (*) would be drawn for 20 children?

Answer: ___

(1)

---

10 Zainab asked 12 friends to name their favourite colour. Their answers were:

Red, Blue, Red, Green, Blue, Blue, Red, Green, Blue, Red, Blue, Green

Complete the tally chart by working out how many friends chose Red, how many chose Blue and how many chose Green.

Red: ___ Blue: ___ Green: ___

(3)

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11 The pictogram shows the favourite colours of a class. Each (*) stands for 5 children.

red: (*) (*) (*) (*) (*) (*)
blue: (*) (*)
green: (*) (*) (*) (*)

Which was chosen by the most children?

Answer: ___

(1)

---

12 A tally chart shows the favourite zoo animals chosen by a class. In a tally, ||||/ stands for 5.

lions: ||||/ ||||/ |||
tigers: ||||/ ||||/
bears: ||||/ |||
monkeys: ||||

How many more chose lions than monkeys?

Answer: ___

(1)

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13 The pictogram shows the side dishes of a class. Each (*) stands for 1 child.

rice: (*) (*) (*) (*) (*)
chips: (*) (*)
pasta: (*) (*)

How many children chose altogether?

Answer: ___

(1)

---

14 A tally chart shows the shapes chosen by a class. In a tally, ||||/ stands for 5.

circle: ||
square: ||||/ ||||/ |||
triangle: ||||/
star: ||||/ |||

How many chose circle?

Answer: ___

(1)

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15 A tally chart shows the ways of coming to school chosen by a class. In a tally, ||||/ stands for 5.

bus: ||||/ ||||/ |||
car: ||||/ ||||/ ||
bike: ||||/ |||
walk: ||||/ ||||/ |

Which was the least popular?

Answer: ___

(1)

---

16 There are 8 shapes. 3 are round and the rest are square.

How many more are square than round?

Answer: ___

(2)

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17 A tally chart shows the ways of coming to school chosen by a class. In a tally, ||||/ stands for 5.

bus: ||||/ ||
car: ||
bike: ||||/ |||
walk: ||||/ ||||/ ||

How many chose car?

Answer: ___

(1)

---

18 The pictogram shows the shapes of a class. Each (*) stands for 5 children.

circle: (*) (*) (*) (*) (*)
square: (*) (*) (*) (*)
triangle: (*) (*) (*) (*)

How many more children chose circle than triangle?

Answer: ___

(2)

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19 A block graph shows the pets of a class. The bar for cats reaches 6; the bar for dogs reaches 1; the bar for fish reaches 10; the bar for rabbits reaches 7.

How many children chose fish?

Answer: ___

(1)

---

20 There are 12 stickers. 8 are odd and the rest are even.

How many more are odd than even?

Answer: ___

(2)

---

21 The pictogram shows the sandwich fillings of a class. Each (*) stands for 10 children.

cheese: (*) (*) (*) (*)
ham: (*)
egg: (*) (*) (*) (*) (*) (*)

Which was chosen by the most children?

Answer: ___

(1)

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22 The pictogram shows the ways of coming to school of a class. Each (*) stands for 1 child.

bus: (*) (*) (*) (*)
car: (*) (*) (*) (*) (*) (*)
bike: (*) (*)

How many more children chose bus than bike?

Answer: ___

(1)

---

23 The pictogram shows the side dishes of a class. Each (*) stands for 1 child.

rice: (*) (*)
chips: (*) (*) (*) (*)
pasta: (*) (*)

How many (*) would be drawn for 2 children?

Answer: ___

(1)

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24 The table shows the sandwich fillings of a class.

cheese: 8
ham: 13
egg: 4
tuna: 12

Which was the least popular?

Answer: ___

(1)

---

25 A tally chart shows the number of birds seen at the window. In a tally, ||||/ stands for 5.

The tally for Monday is: ||||/ ||||/ |

How many birds were seen on Monday?

Answer: ___

(1)

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26 Chloe counted 7 ducks on a pond. Chloe wants to record this in a tally chart using ||||/ for each group of 5.

How many groups of five and how many extra single strokes are needed?

Answer: ___ group(s) of five and ___ single stroke(s)

(1)

---

27 Chloe counted 11 ducks on a pond. Chloe wants to record this in a tally chart using ||||/ for each group of 5.

How many groups of five and how many extra single strokes are needed?

Answer: ___ group(s) of five and ___ single stroke(s)

(1)

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28 The pictogram shows the favourite meals of a class. Each (*) stands for 1 child.

pizza: (*) (*) (*)
pasta: (*) (*) (*) (*) (*) (*)
curry: (*) (*) (*)

How many chose pasta?

Answer: ___

(1)

---

29 The pictogram shows the sandwich fillings of a class. Each (*) stands for 10 children.

cheese: (*) (*) (*) (*) (*)
ham: (*)
egg: (*) (*) (*) (*)

How many chose ham?

Answer: ___

(1)

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Mark scheme · 7.1 Statistics: Charts and Tally: Test Pack

Question 1

7 cao — B1

Answer: **7**

Question 2

(a) Class 2G cao — B1

(a) Answer: **Class 2G**

(b) 8 + 4 oe — M1

(b) 12 cao — A1

(b) Answer: **12**

(c) Fish total = 2 + 3 (= 5) and Rabbits total = 4 + 5 (= 9) both found — M1

(c) No cao, with correct reasoning that 5 is less than 9, ft their totals — A1

(c) Answer: **No, Amir is not correct**

Question 3

2 whole stars and 1 half star oe (2 + 2 + 1 = 5) — B1

Answer: **2 whole stars and 1 half star**

Question 4

(a) 3 whole symbols cao — B1

(a) Answer: **3 whole symbols**

(b) 1 whole symbol and 1 half symbol oe (2 + 1 = 3) — B1

(b) Answer: **1 whole symbol and 1 half symbol**

(c) 6 + 3 + 5 + 2 oe — M1

(c) 16 cao — A1

(c) Answer: **16**

Question 5

4 cao — B1

Answer: **4**

Question 6

13 cao — B1

Answer: **13**

Question 7

tigers cao — B1

Answer: **tigers**

Question 8

12 cao — B1

Answer: **12**

Question 9

2 cao — B1

Answer: **2**

Question 10

Red = 4 cao — B1

Blue = 5 cao — B1

Green = 3 cao — B1

Answer: **Red = 4, Blue = 5, Green = 3**

Question 11

red cao — B1

Answer: **red**

Question 12

9 cao — B1

Answer: **9**

Question 13

9 cao — B1

Answer: **9**

Question 14

2 cao — B1

Answer: **2**

Question 15

bike cao — B1

Answer: **bike**

Question 16

8 - 3 = 5 — M1

2 cao — A1

Answer: **2**

Question 17

2 cao — B1

Answer: **2**

Question 18

uses 5 for each symbol — M1

5 cao — A1

Answer: **5**

Question 19

10 cao — B1

Answer: **10**

Question 20

12 - 8 = 4 — M1

4 cao — A1

Answer: **4**

Question 21

egg cao — B1

Answer: **egg**

Question 22

2 cao — B1

Answer: **2**

Question 23

2 cao — B1

Answer: **2**

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Question 24

egg cao **B1**

Answer: **egg**

Question 25

11 cao **B1**

Answer: **11**

Question 26

1 group of five and 2 single strokes cao **B1**

Answer: **1 group of five and 2 single strokes**

Question 27

2 groups of five and 1 single stroke cao **B1**

Answer: **2 groups of five and 1 single stroke**

Question 28

6 cao **B1**

Answer: **6**

Question 29

10 cao **B1**

Answer: **10**

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