Steady Steps Maths

FREE UNIT TEST · TOPIC 10

FREE SAMPLE · UNIT TEST A

Line Plots & Graphs

Unit Test A · 40 marks · about 40 minutes

GRADE 2



Common Core 2.MD.D.9–10

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Name _____ Date _____

UNIT TEST A

Line Plots & Graphs

40 marks · about 40 minutes · Common Core 2.MD.D.9 · 2.MD.D.10

Name _____ **Date** _____

Instructions

- Answer **every** question in the space given.
- Show your working: in Sections B and C you get marks for your method, even if the final answer is wrong.
- The number in brackets, like [2], shows how many marks a question is worth.
- You have about 40 minutes. A calculator is **not** needed.
- Check your answers if you finish early.

Your score

Section	Questions	Marks	Your score
A · Quick questions	1–10	10	
B · Show your working	11–16	17	
C · Problem solving	17–18	13	
Total		**40**	

Percentage: _____ % 85%+ excellent · 65–84% good · 45–64% keep practising · below 45% revise the packs first

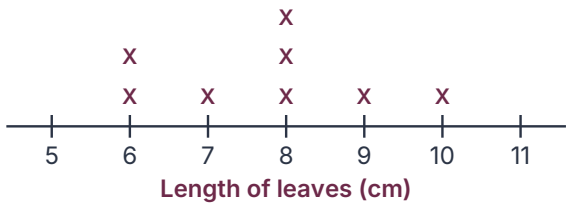
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SECTION A Quick questions

1 mark each · write your answer in the box

1 How many leaves are 7 cm long? [1]



Answer

2 Use the line plot in question 1. Which length is the most common? [1]

Answer

3 Use the line plot in question 1. How many leaves were measured? [1]

Answer

4 How many children chose bus? [1]

Our choices

Bus	●●●●●●●
Car	●●●●
Walk	●●●●●

● = 1 child

Answer

5 Use the graph in question 4. How many more chose bus than car? [1]

Answer

6 A line plot has 4 Xs above 5 and 4 Xs above 6. How many Xs in all? [1]

Answer

7 A book measured 3 times: 35, 36, 35 cm. About how long is it? [1]

Answer

8 A bar graph shows 7 children chose red and 4 chose blue. How many children is that? [1]

Answer

9 Pencils: 10, 12, 10, 13 cm. How many Xs go on 10 in a line plot? [1]

Answer

10 A bar graph: blue reaches 10, red reaches 6. How many fewer chose red? [1]

Answer

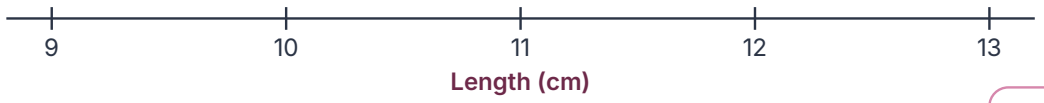
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SECTION B Show your working

Marks are given for your method

11 Make a line plot of these lengths (cm): 10, 11, 11, 12, 12, 12 [2]



Answer

12 (a) Draw a picture graph of the table. Use one circle for each. (b) Which has the most? [3]

	Number
Apple	2
Pear	5
Plum	3



Answer

13 Animals seen at the farm: Hens 3, Cows 7, Goats 5. [3]
(a) Draw a bar graph of this data. (b) How many more Cows than Hens?

Animals seen at the farm



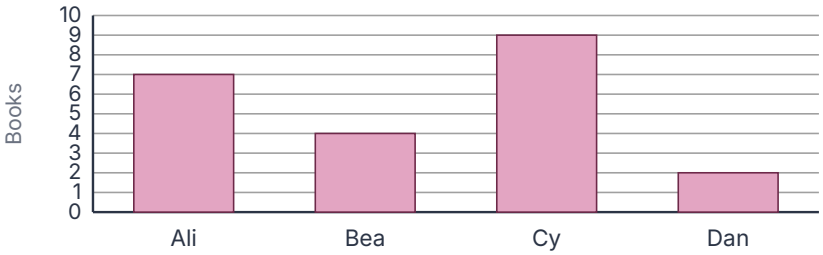
Answer

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14 The bar graph shows books read. [3]
(a) How many books did Bea read? (b) Which bar shows the fewest books? (c) How many books were read altogether?

Books read

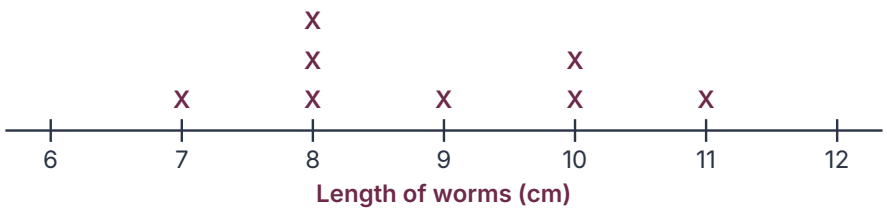


Answer

15 Yara drew a picture graph with big pictures for cats and small pictures for dogs. Yara says more children chose cats because the cat row is longer. Is Yara right? Explain. [2]

Answer

16 The line plot shows the lengths of some worms (cm). [4]
(a) How many worms are shorter than 9 cm? (b) How long is the longest worm?
(c) How much longer is the longest worm than the shortest? (d) How many worms were measured?



Answer

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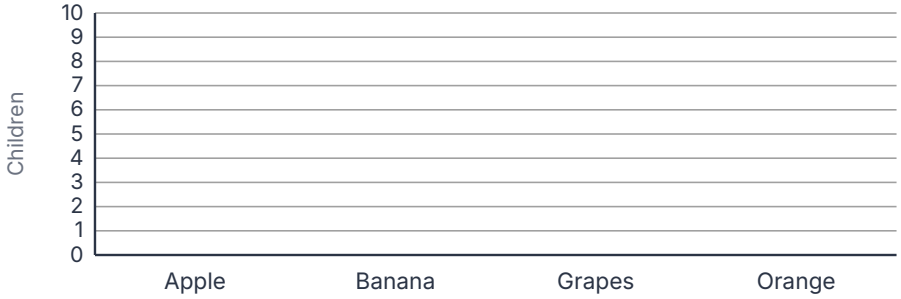
SECTION C Problem solving

Longer questions with several steps

17 Karim asked children to choose a favourite fruit: Apple 7, Banana 2, Grapes 6, Orange 8. [7]

(a) Draw a bar graph of the results. (b) How many more children chose orange than banana? (c) How many children were asked?

Favourite fruit



Answer _____

18 A class measured the heights of 7 bean plants (cm): 10, 10, 11, 12, 12, 12, 13. [6]

(a) Make a line plot of the heights. (b) Which height is the most common? (c) How many plants are taller than 12 cm?



Answer _____

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Mark scheme

For parents · give the marks shown; method marks can be given even if the final answer is wrong

Tip: Give method marks generously when the working shows the right idea. If a mistake early on is carried through correctly, give the later marks.

Q	Answer	Marks	How to award the marks
1	1	1	
2	8 cm	1	
3	8	1	
4	7	1	
5	3	1	
6	8	1	
7	about 35 cm	1	Accept about 36 cm too.
8	11	1	
9	2	1	
10	4	1	
11	10 cm: 1 X; 11 cm: 2 X; 12 cm: 3 X	2	2 marks for all Xs correct (1 mark if one X is missing or extra).
12	(a) Apple 2, Pear 5, Plum 3 circles (b) Pear	3	(a) 2 marks: 1 mark if one row is wrong. (b) 1 mark.
13	(a) bars to 3, 7, 5 (b) 7 − 3 = 4	3	(a) 2 marks: 1 mark if one bar is wrong. (b) 1 mark.
14	(a) 4 (b) Dan (c) 7 + 4 + 9 + 2 = 22	3	1 mark each part.
15	No: you must count the pictures. The pictures should all be the same size.	2	1 mark for “no”; 1 mark for a reason (count the pictures / pictures must be the same size).
16	(a) 4 (b) 11 cm (c) 11 − 7 = 4 cm (d) 8	4	1 mark each part.
17	(a) bars to 7, 2, 6, 8 (b) 8 − 2 = 6 (c) 7 + 2 + 6 + 8 = 23	7	(a) 3 marks for four correct bars (2 if one bar is wrong, 1 if two are wrong). (b) 2 marks. (c) 2 marks: 1 for adding all four. Follow through.
18	(a) 10 cm: 2 X; 11 cm: 1 X; 12 cm: 3 X; 13 cm: 1 X (b) 12 cm (c) 1	6	(a) 2 marks: 1 mark if one X is wrong. (b) 2 marks. (c) 2 marks. Follow through.

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What to revise

Circle the questions your child lost marks on, then go back to the matching part of the pack

Questions	Skill	Revise in	✓ / ×
1, 2, 3, 6, 16	Read a line plot	Pack 1 · Measuring & Line Plots, Part 1	
4, 5	Read a picture graph	Pack 2 · Picture Graphs & Bar Graphs, Part 1	
7	Measuring the same thing again	Pack 1 · Measuring & Line Plots, Part 4	
8, 10, 14	Solve problems with a graph	Pack 2 · Picture Graphs & Bar Graphs, Part 3	
9, 11	Make a line plot	Pack 1 · Measuring & Line Plots, Part 2	
12, 15	Draw a picture graph	Pack 2 · Picture Graphs & Bar Graphs, Part 2	
13	Draw a bar graph	Pack 2 · Picture Graphs & Bar Graphs, Part 4	
17	Draw and use a bar graph	Pack 2 · Picture Graphs & Bar Graphs, Parts 3 and 4	
18	Make and use a line plot	Pack 1 · Measuring & Line Plots, Parts 2 and 4	

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