Steady Steps Maths

FREE UNIT TEST · TOPIC 10

FREE SAMPLE · UNIT TEST A

Data & Graphs

Unit Test A · 40 marks · about 40 minutes

GRADE 1



Common Core 1.MD.C.4

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Name _____ Date _____

UNIT TEST A

Data & Graphs

40 marks · about 40 minutes · Common Core 1.MD.C.4

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.
- A grown-up may read each question aloud, but should not help with the maths.

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 What number do these tally marks show? [1]



Answer

2 Sara counts 9 red cars and 6 blue cars. How many cars is that in all? [1]

Answer

3 Leo counts the fruit in a bowl: 6 apples, 3 pears and 7 plums. Which fruit is there most of? [1]

Answer

4 Look again at the fruit in question 3. How many more plums than pears are there? [1]

Answer

5 On a bar graph, the bar for red stops at 7. How many chose red? [1]

Answer

6 In a vote, 7 children chose cats, 3 chose dogs and 8 chose fish. How many children voted? [1]

Answer

7 What number do these tally marks show? [1]



Answer

8 One month had 2 sunny days, 8 rainy days and 9 cloudy days. Which weather had the fewest days? [1]

Answer

9 In a picture graph each picture shows 1. The row for cats has 9 pictures. How many cats are there? [1]

Answer

10 Green has 3 votes. 2 more children vote for green. How many votes does green have now? [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Draw tally marks to show (a) 8 (b) 16 [2]

12 Sort and count. Write how many of each. [3]



13 Write the total for each row of the tally chart. [3]

Our favourite pets		
	Tally	Total
Cat	𝍸	
Dog	|||	
Fish	𝍸 ||	

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Name _____ Date _____

14 (a) How many hearts are there? (b) How many more flowers than stars? (c) How many stickers in all? [3]

Stickers in my book



15 Sam looks at this bar graph and says 6 children chose red. Is Sam right? How many chose red? [2]

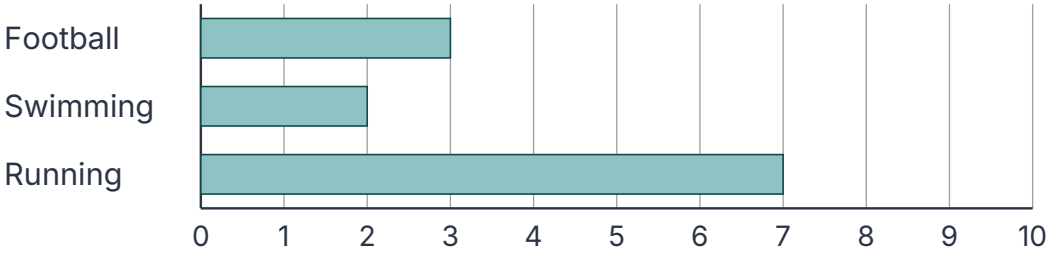
Favourite colour



Answer

16 (a) Which sport did the most children choose? (b) How many fewer chose swimming than running? (c) How many children chose a sport in all? [4]

Our favourite sport



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SECTION C

Problem solving

Longer questions with several steps

17 Adam asks friends their favourite fruit: banana, apple, grape, grape, apple, apple, apple, banana, banana, apple, banana, grape. [7]

(a) Fill in the tally chart.

(b) Which fruit is the favourite? (c) How many more chose apple than grape? (d) How many friends did Adam ask?

Favourite fruit		
	Tally	**Total**
Apple		
Banana		
Grape		

18 Ivy reads 4 books on Monday, 8 on Tuesday and 2 on Wednesday. [6]

(a) Draw the bars on the bar graph.

(b) How many more books did Ivy read on Tuesday than on Monday? (c) How many books in all?

Books Ivy read



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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	18	1	
2	15	1	
3	plums	1	
4	4	1	
5	7	1	
6	18	1	
7	11	1	
8	sunny	1	
9	9	1	
10	5	1	
11	(a) 1 group of 5 and 3 more (b) 3 groups of 5 and 1 more	2	1 mark each. Each group of 5 must have the fifth mark across the other four.
12	stars 7, fish 2, cars 4	3	1 mark for each correct count.
13	Cat 5, Dog 3, Fish 7	3	1 mark each.
14	(a) 6 (b) 8 − 3 = 5 (c) 17	3	1 mark each.
15	No: read the number where the bar ends. 5 chose red.	2	1 mark for “no” (read where the bar ends); 1 mark for 5.
16	(a) running (b) 7 − 2 = 5 (c) 3 + 2 + 7 = 12	4	(a) 1 mark. (b) 1 mark. (c) 2 marks: 1 for adding all three, 1 for the answer.
17	(a) apple 5, banana 4, grape 3 (tally marks to match) (b) apple (c) 5 − 3 = 2 (d) 12	7	(a) 3 marks: 1 for each correct row. (b) 1 mark. (c) 2 marks: 1 for subtracting, 1 for the answer. (d) 1 mark. Follow through from (a).
18	(a) bars ending at 4, 8 and 2 (b) 8 − 4 = 4 (c) 4 + 8 + 2 = 14	6	(a) 3 marks: 1 for each bar ending at the right number. (b) 2 marks: 1 for subtracting, 1 for the answer. (c) 1 mark.

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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, 7, 11	Tally marks	Pack 1 · Sorting & Tally Charts, Part 2	
2, 6	Reading data: how many in all?	Pack 1 · Sorting & Tally Charts, Part 4	
3, 8, 17	Most and fewest	Pack 1 · Sorting & Tally Charts, Parts 3 and 4	
4, 10	How many more?	Pack 2 · Picture Graphs & Bar Graphs, Part 4	
5, 15	Reading a bar graph	Pack 2 · Picture Graphs & Bar Graphs, Part 2	
9	Reading a picture graph	Pack 2 · Picture Graphs & Bar Graphs, Part 1	
12	Sort and count	Pack 1 · Sorting & Tally Charts, Part 1	
13	Reading a tally chart	Pack 1 · Sorting & Tally Charts, Parts 2 and 4	
14	Reading a picture graph	Pack 2 · Picture Graphs & Bar Graphs, Parts 1 and 4	
16	Reading a bar graph	Pack 2 · Picture Graphs & Bar Graphs, Parts 2 and 4	
18	Making a bar graph	Pack 2 · Picture Graphs & Bar Graphs, Parts 3 and 4	

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