Steady Steps Maths

FREE UNIT TEST · TOPIC 5

FREE SAMPLE · UNIT TEST A

Adding & Subtracting within 100

Unit Test A · 40 marks · about 40 minutes

GRADE 2



Common Core 2.NBT.B.5–6, 2.NBT.B.9

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UNIT TEST A Adding & Subtracting within 100

40 marks · about 40 minutes · Common Core 2.NBT.B.5 · 2.NBT.B.6 · 2.NBT.B.9

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. 21 + 22 = ☐ [1]
   Answer
2. 37 + 27 = ☐ [1]
   Answer
3. 67 − 43 = ☐ [1]
   Answer
4. 62 − 47 = ☐ [1]
   Answer
5. 51 + 30 = ☐ [1]
   Answer
6. On a number line, start at 28. Jump on 20, then jump on 6. Where do you land? [1]
   Answer
7. 26 + 4 + 17 + 3 = ☐ [1]
   Answer
8. 35 + ☐ = 80 [1]
   Answer
9. 100 − 63 = ☐ [1]
   Answer
10. Write an addition that checks 70 − 24 = 46. [1]
    Answer

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SECTION B Show your working

Marks are given for your method

11 Use the column method to work out 46 + 17. [2]

	T	O
	4	6
+	1	7

Answer _____

12 (a) Use the column method to work out 61 – 32. (b) Check your answer by adding. [3]

	T	O
	6	1
–	3	2

Answer _____

13 Work out 18 + 25 + 12 + 5. Show how you grouped the numbers. [3]

Answer _____

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14 Use a number line to work out 77 − 38 by counting up from 38. [3]



Answer

15 Bilal worked out 64 − 28 and got 44. Bilal did 8 − 4 in the ones. What is the mistake? What is the right answer? [2]

Answer

16 (a) Explain why 53 + 29 = 82 using tens and ones. (b) 53 + 29 = 29 + ☐ [4]
(c) 82 − 29 = ☐

Answer

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SECTION C Problem solving

Longer questions with several steps

17 A shop had 46 apples. Then 28 more apples were delivered. [7]
(a) How many apples did the shop have then? (b) 37 apples were sold. How many are left?
(c) How many more apples does the shop need to have 100?

Answer

18 Four classes collected bottles: Class A 24, Class B 18, Class C 26, Class D 12. [6]
(a) How many bottles did they collect altogether? (b) How many more did Class C collect than Class D?

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	43	1	
2	64	1	
3	24	1	
4	15	1	
5	81	1	
6	54	1	
7	50	1	Look for pairs that make 10.
8	45	1	
9	37	1	
10	46 + 24 = 70 (or 24 + 46 = 70)	1	
11	63	2	1 mark for adding the ones and carrying 1 ten; 1 mark for the answer.
12	(a) 29 (b) 29 + 32 = 61 (or 32 + 29 = 61)	3	(a) 2 marks: 1 for exchanging a ten correctly, 1 for the answer. (b) 1 mark.
13	60	3	2 marks for a clear method (friendly pairs, or tens then ones); 1 mark for the answer.
14	e.g. 38 → 40 (+2) → 70 (+30) → 77 (+7); 39	3	2 marks for correct jumps on the line (any sensible jumps); 1 mark for the answer.
15	The ones must be 4 − 8, so exchange a ten: 64 − 28 = 36.	2	1 mark for explaining the mistake (took the smaller from the larger / did not exchange); 1 mark for the right answer.
16	(a) 50 + 20 = 70; 3 + 9 = 12; total 82 (b) 53 (c) 53	4	(a) 2 marks: 1 for adding the tens and the ones separately, 1 for putting them together. (b) 1 mark. (c) 1 mark.
17	(a) 46 + 28 = 74 (b) 74 − 37 = 37 (c) 100 − 37 = 63	7	(a) 2 marks: 1 for adding, 1 for the answer. (b) 2 marks. (c) 3 marks: 1 for seeing it is 100 − (or counting up), 1 for working, 1 for the answer. Follow through.
18	(a) 24 + 18 + 26 + 12 = 80 (b) 26 − 12 = 14	6	(a) 3 marks: 1 for a sensible grouping, 1 for working, 1 for the answer. (b) 3 marks: 1 for choosing the right classes, 1 for subtracting, 1 for the answer.

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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, 5	Add the tens, then the ones	Pack 1 · Adding within 100, Part 1	
2, 11	The column method	Pack 1 · Adding within 100, Part 3	
3	Take away tens, then ones	Pack 2 · Subtracting within 100, Part 1	
4, 15	The column method	Pack 2 · Subtracting within 100, Part 3	
6	Jumps on a number line	Pack 1 · Adding within 100, Part 2	
7	Look for friendly pairs	Pack 3 · Adding Up to Four Numbers, Part 1	
8, 9, 14	Count up	Pack 2 · Subtracting within 100, Part 2	
10	Check by adding	Pack 2 · Subtracting within 100, Part 4	
12	Column method and checking	Pack 2 · Subtracting within 100, Parts 3 and 4	
13	Adding four numbers	Pack 3 · Adding Up to Four Numbers, Part 2	
16	Why does it work?	Pack 1 · Adding within 100, Part 4	
17	Add and subtract in steps	Pack 1 · Adding within 100, Pack 2 · Subtracting within 100	
18	Adding four numbers	Pack 3 · Adding Up to Four Numbers, Part 4	

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