Steady Steps Maths

FREE UNIT TEST · TOPIC 8

FREE SAMPLE · UNIT TEST A

Length Problems & Number Lines

Unit Test A · 40 marks · about 40 minutes

GRADE 2



Common Core 2.MD.B.5–6

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Name _____ Date _____

UNIT TEST A Length Problems & Number Lines

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

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

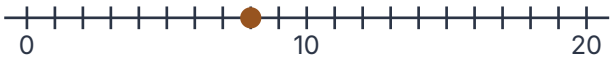
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SECTION A Quick questions

1 mark each · write your answer in the box

1 What number is at the dot? [1]



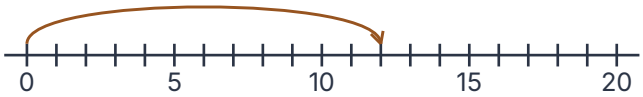
Answer

2 What number is at the dot? [1]



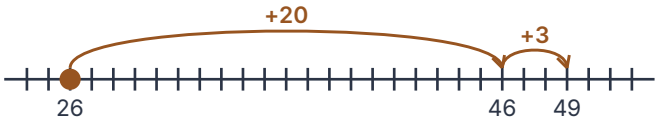
Answer

3 The jump starts at 0. How long is the jump? [1]



Answer

4 Write the addition that this number line shows. [1]



Answer

5 On a number line, start at 75 and jump back 30. Where do you land? [1]

Answer

6 A 16 cm ribbon and a 57 cm ribbon are laid end to end. How long are they together? [1]

Answer

7 A string is 83 cm long. 55 cm is cut off. How much string is left? [1]

Answer

8 A shelf is 75 cm long. A table is 92 cm long. How much longer is the table? [1]

Answer

9 A path is 100 m long. Noor has walked 64 m. How much further to the end? [1]

Answer

10 A red rope is 63 m long. A blue rope is 27 m shorter. How long is the blue rope? [1]

Answer

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SECTION B Show your working

Marks are given for your method

11 Show 36 + 25 with jumps on this number line. Write the answer. [2]



Answer

12 A ribbon is 66 cm long. Mum cuts off 37 cm. [3]
(a) Write an equation with ☐ for the length that is left. (b) Find the length that is left.

Answer

13 Two pieces of wood, 34 cm and 47 cm long, are put end to end. [3]
(a) How long are they together? Show your working. (b) Is that more or less than 1 metre (100 cm)?

Answer

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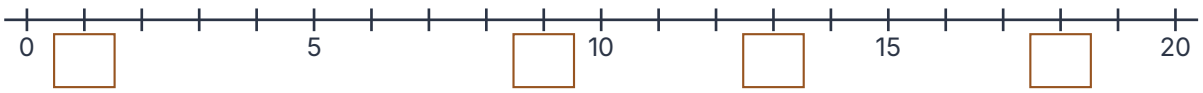
14 A toy giraffe is 77 cm tall. A teddy bear is 49 cm tall. [3]
(a) How much taller is the giraffe? (b) The teddy stands on a box that is 20 cm tall. Is the teddy now taller than the giraffe?

Answer

15 Maya says a jump from 20 to 35 on a number line is 55 long. Is Maya right? Explain. [2]

Answer

16 Write the missing numbers in the boxes on this number line. [4]



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SECTION C Problem solving

Longer questions with several steps

17 Sana has a ribbon 96 cm long and cuts off one piece 35 cm long and another piece 28 cm long. [7]

(a) How much ribbon is cut off altogether? (b) How much ribbon is left?

(c) Is the piece that is left longer or shorter than 30 cm? By how much?

Answer

18 In a long jump game, Lina jumps 23 cm and then jumps 38 cm more from where Lina landed. [6]

(a) How far did Lina go altogether?

(b) Zaid went 73 cm altogether. How much further did Zaid go than Lina?

(c) Write an equation with ☐ for part (b).

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	8	1	
2	56	1	
3	12	1	
4	26 + 23 = 49	1	Accept 26 + 20 + 3 = 49.
5	45	1	
6	73 cm	1	
7	28 cm	1	
8	17 cm	1	
9	36 m	1	
10	36 m	1	
11	61 (e.g. 36 → 56 → 61)	2	1 mark for correct jumps (any sensible jumps); 1 mark for the answer.
12	(a) 66 − 37 = ☐ (or 37 + ☐ = 66) (b) 29 cm	3	(a) 1 mark for any correct equation with ☐. (b) 2 marks: 1 for working, 1 for the answer with cm.
13	(a) 34 + 47 = 81 cm (b) less	3	(a) 2 marks: 1 for adding, 1 for the answer. (b) 1 mark.
14	(a) 77 − 49 = 28 cm (b) 49 + 20 = 69 cm, so no	3	(a) 2 marks: 1 for subtracting, 1 for the answer. (b) 1 mark for the comparison with a reason.
15	No: the jump is 35 − 20 = 15.	2	1 mark for "no" with a reason (count from the start, not from 0); 1 mark for the right length.
16	1, 9, 13, 18	4	1 mark for each correct number.
17	(a) 35 + 28 = 63 cm (b) 96 − 63 = 33 cm (c) longer, by 3 cm	7	(a) 2 marks. (b) 2 marks: 1 for subtracting, 1 for the answer. (c) 3 marks: 1 for longer/shorter, 1 for subtracting, 1 for the answer. Follow through.
18	(a) 23 + 38 = 61 cm (b) 73 − 61 = 12 cm (c) 61 + ☐ = 73 (or 73 − 61 = ☐)	6	2 marks each part: 1 for the method, 1 for the answer; (c) any correct equation with ☐. 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, 16	Find the number	Pack 1 · Number Lines, Part 1	
3, 15	Lengths from 0	Pack 1 · Number Lines, Part 2	
4, 11	Adding on a number line	Pack 1 · Number Lines, Part 3	
5	Subtracting on a number line	Pack 1 · Number Lines, Part 4	
6, 13	Joining lengths	Pack 2 · Length Word Problems, Part 1	
7	Cutting lengths	Pack 2 · Length Word Problems, Part 2	
8, 10, 14	Comparing lengths	Pack 2 · Length Word Problems, Part 3	
9	Missing lengths	Pack 2 · Length Word Problems, Part 4	
12	Equations for length problems	Pack 2 · Length Word Problems, Parts 2 and 4	
17	Two-step length problems	Pack 2 · Length Word Problems, Parts 1 and 2	
18	Equations for length problems	Pack 2 · Length Word Problems, Parts 3 and 4	

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