Steady Steps Maths

FREE UNIT TEST · TOPIC 7

FREE SAMPLE · UNIT TEST A

Measuring Length

Unit Test A · 40 marks · about 40 minutes

GRADE 2



Common Core 2.MD.A.1–4

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Name _____ Date _____

UNIT TEST A

Measuring Length

40 marks · about 40 minutes · Common Core 2.MD.A.1–4

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.
- You need a centimetre ruler. Print this test at 100% (actual size) so the pictures measure correctly.

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

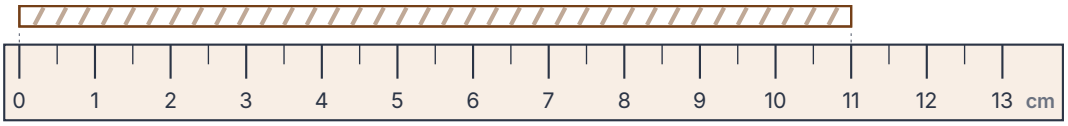
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SECTION A Quick questions

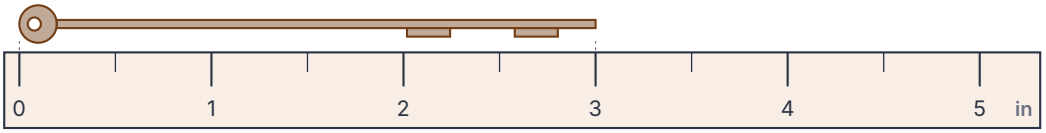
1 mark each · write your answer in the box

1 How long is the straw? [1]



Answer

2 How long is the key? [1]



Answer

3 A crayon goes from 3 cm to 9 cm on a ruler. How long is it? [1]

Answer

4 Ruler or measuring tape: which is better to measure a football pitch? [1]

Answer

5 A ribbon is 8 inches long. In cm, is the number bigger or smaller? [1]

Answer

6 Which unit would you use to measure a paper clip: cm or m? [1]

Answer

7 About how long is a pencil? 15 cm · 15 m · 1 cm [1]

Answer

8 Ribbon A is 83 cm. Ribbon B is 45 cm. How much longer is ribbon A? [1]

Answer

9 Pencil: 0 to 8 cm. Crayon: 0 to 4 cm. How much longer is the pencil? [1]

Answer

10 Which is the longest? 71 cm, 17 cm, 70 cm [1]

Answer

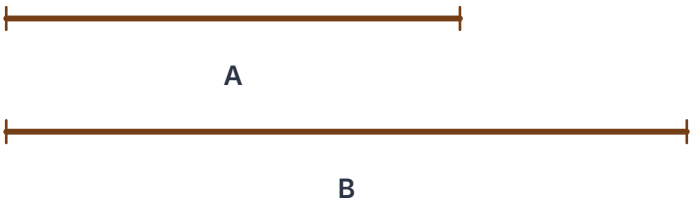
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SECTION B Show your working

Marks are given for your method

11 Use your own ruler. Measure each line to the nearest centimetre. [2]
(a) Line A (b) Line B



Answer _____

12 Noor measured a tray and got 10 inches. Sana measured the same tray and got 25 centimetres. [3]
(a) Which unit is longer, 1 inch or 1 centimetre? (b) Explain why Sana's number is bigger. (c) Are both children right?

Answer _____

13 (a) Estimate how long this pencil is in centimetres. (b) Now measure it with your ruler. (c) How close was your estimate? [3]



Answer _____

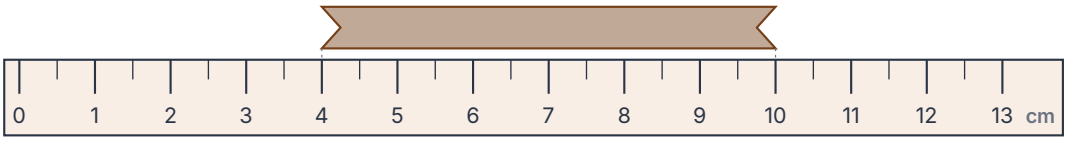
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14 Pencil A is 16 cm, pencil B is 11 cm and pencil C is 9 cm long. [3]
(a) Which pencil is the longest? (b) How much longer is pencil A than pencil B? (c) Write the pencils in order from shortest to longest.

Answer

15 Yara says this ribbon is 10 cm long. Is Yara right? Explain. [2]



Answer

16 Choose **cm** or **m** to measure each one. [4]
(a) a book (b) a beach (c) a button (d) a tree

Answer

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SECTION C

Problem solving

Longer questions with several steps

17 Tariq's plant was 18 cm tall. A week later it was 25 cm tall. Omar's plant was 31 cm tall. A week later it was 36 cm tall. [7]
(a) How much did Tariq's plant grow? (b) How much did Omar's plant grow?
(c) Whose plant grew more? By how much? (d) After the week, how much taller is Omar's plant than Tariq's?

Answer

18 Noor measures a desk with small cubes and gets 40 cubes. Karim measures the same desk with long rods and gets 8 rods. [6]
(a) Who used the longer unit? (b) Explain why Karim's number is smaller.
(c) Noor measures a shelf with the same cubes and gets 25 cubes. Is the shelf longer or shorter than the desk? By how many cubes?

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	11 cm	1	
2	3 in	1	
3	6 cm	1	9 − 3 = 6.
4	a measuring tape	1	
5	bigger	1	Centimetres are shorter units, so you need more of them.
6	cm	1	
7	15 cm	1	
8	38 cm	1	
9	4 cm	1	
10	71 cm	1	
11	(a) 6 cm (b) 9 cm	2	1 mark each. Accept 1 cm either way if the page was not printed at full size.
12	(a) 1 inch (b) centimetres are shorter, so you need more of them (c) yes	3	1 mark each part.
13	(a) any sensible estimate (b) 13 cm (c) the difference between (a) and (b)	3	1 mark each part: (a) any estimate within about 5 cm; (b) exact (1 cm either way); (c) correct difference.
14	(a) A (b) 16 − 11 = 5 cm (c) C, B, A	3	1 mark each part.
15	No: it starts at 4, not 0. It is 10 − 4 = 6 cm.	2	1 mark for “no” and seeing it does not start at 0; 1 mark for the right length.
16	(a) cm (b) m (c) cm (d) m	4	1 mark each.
17	(a) 25 − 18 = 7 cm (b) 36 − 31 = 5 cm (c) Tariq's, by 2 cm (d) 36 − 25 = 11 cm	7	(a) 2 marks. (b) 2 marks. (c) 2 marks: 1 for the name, 1 for the difference. (d) 1 mark. Follow through.
18	(a) Karim (rods) (b) rods are longer, so fewer of them fit (c) shorter, by 15 cubes	6	2 marks each part: (c) 1 for longer/shorter, 1 for the difference.

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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, 3, 15	Reading a centimetre ruler	Pack 1 · Measuring with Rulers, Part 1	
2	Reading an inch ruler	Pack 1 · Measuring with Rulers, Part 2	
4	Choose the tool	Pack 1 · Measuring with Rulers, Part 4	
5	Bigger or smaller number?	Pack 2 · Measuring in Different Units, Part 2	
6, 16	Choose the unit	Pack 3 · Estimating Length, Part 1	
7	Choose the best estimate	Pack 3 · Estimating Length, Part 2	
8, 17	How much longer?	Pack 4 · Comparing Lengths, Part 3	
9	Two objects on one ruler	Pack 4 · Comparing Lengths, Part 1	
10	Longest and shortest	Pack 4 · Comparing Lengths, Part 4	
11	Measure with your own ruler	Pack 1 · Measuring with Rulers, Part 3	
12	Centimetres and inches	Pack 2 · Measuring in Different Units, Parts 1 and 2	
13	Estimate, then measure	Pack 3 · Estimating Length, Part 3	
14	Longest and shortest	Pack 4 · Comparing Lengths, Parts 3 and 4	
18	Short blocks and long blocks	Pack 2 · Measuring in Different Units, Part 3	

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