Measuring Length

Standard difficulty · 20 questions · 40 marks · Time: 54 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. 3 m = ___ cm

(a) 30 **(b)** 300 **(c)** 400 **(d)** 3000

2. 4 m 81 cm = ___ cm

(a) 481 **(b)** 85 **(c)** 121 **(d)** 491

3. How many pieces of 50 cm can be cut from 2 m of ribbon?

(a) 6 **(b)** 5 **(c)** 4 **(d)** 3

4. 1/4 m = ___ cm

(a) 25 **(b)** 15 **(c)** 35 **(d)** 75

5. 1 m =

(a) 50 cm **(b)** 100 cm **(c)** 10 cm **(d)** 1000 cm

6. On a broken ruler, an eraser starts at the 6 cm mark and ends at the 10 cm mark. How long is it?

(a) 4 cm **(b)** 6 cm **(c)** 10 cm **(d)** 5 cm

7. Which of these is more than 1 m long?

(a) a notebook **(b)** a crayon **(c)** a toothbrush **(d)** a door

8. 8 pieces of 1/2 m are laid end to end. How long is that in cm?

(a) 450 **(b)** 375 **(c)** 425 **(d)** 400

Section B — Short answer — 8 × 2 = 16 marks

9. 1400 cm = ___ m

10. Write 642 cm in metres and centimetres.

11. A four-sided field has sides of 15 cm, 8 cm, 11 cm, 9 cm. What is the length of its boundary (perimeter)?

12. How many stickers 50 cm long are needed to cover a strip 6 m long?

13. Is a bus more or less than 1 m long?

14. 4 m 21 cm = ___ cm

15. 2 pieces of 1/2 m are joined. How many centimetres is that?

16. 10 pieces of 1/4 m are joined. How many centimetres is that?

Section C — Word problems — 4 × 4 = 16 marks

17. Riya puts a ribbon all round a rectangular card 26 cm long and 6 cm wide. How much ribbon is needed? Is it more or less than 1 m?

18. A tailor has 6 m of cloth. She cuts it into pieces 20 cm long. (a) How many centimetres of cloth are there? (b) How many pieces does she get?

19. Aman is 1 m 29 cm, Lata is 1 m 24 cm, Tara is 1 m 18 cm tall. Write each height in centimetres. Who is the tallest? Who is the shortest?

20. On a broken ruler, a pen starts at 6 cm and ends at 13 cm. A pencil starts at 7 cm and ends at 16 cm. How long is each? Which is longer, and by how much?

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Answer key

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Q	Answer	Working
1	**(b) 300**	1 m = 100 cm
2	**(a) 481**	4 × 100 + 81
3	**(c) 4**	2 m = 200 cm; 200 ÷ 50
4	**(a) 25**	1 m = 100 cm; 1/4 m = 25 cm
5	**(b) 100 cm**	—
6	**(a) 4 cm**	10 − 6
7	**(d) a door**	—
8	**(d) 400**	8 × 50
9	**14**	100 cm = 1 m
10	**6 m 42 cm**	642 = 600 + 42
11	**43 cm**	15 + 8 + 11 + 9
12	**12**	600 ÷ 50
13	**More than 1 m**	—
14	**421**	—
15	**100**	2 × 50
16	**250**	10 × 25
17	**64 cm; less than 1 m**	26 + 6 + 26 + 6
18	**(a) 600 cm; (b) 30**	6 × 100; 600 ÷ 20
19	**Aman 129 cm, Lata 124 cm, Tara 118 cm; tallest Aman, shortest Tara**	—
20	**pen 7 cm, pencil 9 cm; the pencil by 2 cm**	end mark − start mark