

Measurement of Length

Grade2

Name: _____ Date: _____

Section A: Choose the Correct Unit

Choose mm, cm, or m for each item.

1. Length of a swimming pool: _____
 2. Thickness of a credit card: _____
 3. Height of a door: _____
 4. Width of your pencil: _____
 5. Length of an ant: _____
 6. Height of your school building: _____
 7. Thickness of a notebook page: _____
 8. Length of your bed: _____
 9. Width of a stapler pin: _____
 10. Distance from your house to school: _____
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Section B: Is It Measured in Length? ✓ or X

Write ✓ if measured in length, X if not. (10 marks - 1 mark each)

Item	Length? (✓/X)
1. Ribbon	
2. Sugar	
3. Road	
4. Milk	

Item	Length? (✓/X)
5. Rope	
6. Rice	
7. Wire	
8. Oil	
9. Curtain cloth	
10. Honey	

Section C: Unit Conversions

Convert the following measurements.

mm to cm

1. 80 mm = _____ cm

2. 150 mm = _____ cm

cm to mm

3. 9 cm = _____ mm

4. 23 cm = _____ mm

cm to m

5. 400 cm = _____ m

6. 850 cm = _____ m

m to cm

7. 6 m = _____ cm

8. 12 m = _____ cm

m to mm

9. 3 m = _____ mm

mm to m

10. 7000 mm = _____ m

Section D: Addition of m and cm (Vertical) +

Add the following measurements. (15 marks - 1.5 marks each)

1.

$$\begin{array}{r} 45 \text{ m } 65 \text{ cm} \\ + 28 \text{ m } 75 \text{ cm} \\ \hline \\ \hline \end{array}$$

2.

$$\begin{array}{r} 67 \text{ m } 85 \text{ cm} \\ + 54 \text{ m } 45 \text{ cm} \\ \hline \\ \hline \end{array}$$

3.

$$\begin{array}{r} 82 \text{ m } 90 \text{ cm} \\ + 39 \text{ m } 55 \text{ cm} \\ \hline \\ \hline \end{array}$$

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4.

$$\begin{array}{r} 58 \text{ m } 78 \text{ cm} \\ + 63 \text{ m } 88 \text{ cm} \\ \hline \hline \end{array}$$

5.

$$\begin{array}{r} 76 \text{ m } 95 \text{ cm} \\ + 48 \text{ m } 85 \text{ cm} \\ \hline \hline \end{array}$$

6.

$$\begin{array}{r} 91 \text{ m } 68 \text{ cm} \\ + 77 \text{ m } 92 \text{ cm} \\ \hline \hline \end{array}$$

7.

$$\begin{array}{r} 35 \text{ m } 48 \text{ cm} \\ + 29 \text{ m } 37 \text{ cm} \\ \hline \hline \end{array}$$

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8.

$$\begin{array}{r} 88 \text{ m } 75 \text{ cm} \\ + 66 \text{ m } 99 \text{ cm} \\ \hline \hline \end{array}$$

9.

$$\begin{array}{r} 53 \text{ m } 87 \text{ cm} \\ + 69 \text{ m } 78 \text{ cm} \\ \hline \hline \end{array}$$

10.

$$\begin{array}{r} 94 \text{ m } 96 \text{ cm} \\ + 87 \text{ m } 88 \text{ cm} \\ \hline \hline \end{array}$$

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Section E: Addition of m and cm (Horizontal) +

Add the following measurements.

1. $32 \text{ m } 55 \text{ cm} + 47 \text{ m } 68 \text{ cm} = \underline{\hspace{2cm}}$

2. $59 \text{ m } 82 \text{ cm} + 64 \text{ m } 79 \text{ cm} = \underline{\hspace{2cm}}$

3. $71 \text{ m } 48 \text{ cm} + 85 \text{ m } 95 \text{ cm} = \underline{\hspace{2cm}}$

4. $43 \text{ m } 76 \text{ cm} + 58 \text{ m } 87 \text{ cm} = \underline{\hspace{2cm}}$

5. $65\text{ m } 93\text{ cm} + 78\text{ m } 89\text{ cm} = \underline{\hspace{2cm}}$

6. $89\text{ m } 67\text{ cm} + 92\text{ m } 98\text{ cm} = \underline{\hspace{2cm}}$

7. $27\text{ m } 84\text{ cm} + 36\text{ m } 77\text{ cm} = \underline{\hspace{2cm}}$

8. $55\text{ m } 91\text{ cm} + 68\text{ m } 88\text{ cm} = \underline{\hspace{2cm}}$

9. $83\text{ m } 85\text{ cm} + 97\text{ m } 96\text{ cm} = \underline{\hspace{2cm}}$

10. $46\text{ m } 99\text{ cm} + 75\text{ m } 88\text{ cm} = \underline{\hspace{2cm}}$

Section F: Subtraction of m and cm (Vertical) —

Subtract the following measurements.

1.

$$\begin{array}{r} 85\text{ m } 45\text{ cm} \\ - 38\text{ m } 78\text{ cm} \\ \hline \\ \hline \end{array}$$

2.

$$\begin{array}{r} 92\text{ m } 30\text{ cm} \\ - 47\text{ m } 65\text{ cm} \\ \hline \\ \hline \end{array}$$

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3.

76 m 25 cm

- 58 m 88 cm

4.

64 m 15 cm

- 29 m 67 cm

81 m 40 cm

- 56 m 95 cm

6.

95 m 20 cm

- 68 m 75 cm

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7.

73 m 35 cm

- 45 m 89 cm

8.

88 m 10 cm

- 59 m 58 cm

9.

67 m 28 cm

- 39 m 79 cm

10.

54 m 12 cm

- 27 m 85 cm

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Section G: Subtraction of m and cm (Horizontal) —

Subtract the following measurements.

1. $78\text{ m } 60\text{ cm} - 45\text{ m } 85\text{ cm} = \underline{\hspace{2cm}}$

2. $96\text{ m } 35\text{ cm} - 68\text{ m } 79\text{ cm} = \underline{\hspace{2cm}}$

3. $84\text{ m } 20\text{ cm} - 57\text{ m } 68\text{ cm} = \underline{\hspace{2cm}}$

4. $72\text{ m } 45\text{ cm} - 49\text{ m } 87\text{ cm} = \underline{\hspace{2cm}}$

5. $91\text{ m } 15\text{ cm} - 64\text{ m } 78\text{ cm} = \underline{\hspace{2cm}}$

6. $65\text{ m } 30\text{ cm} - 38\text{ m } 95\text{ cm} = \underline{\hspace{2cm}}$

7. $83\text{ m } 48\text{ cm} - 56\text{ m } 89\text{ cm} = \underline{\hspace{2cm}}$

8. $57\text{ m } 25\text{ cm} - 29\text{ m } 76\text{ cm} = \underline{\hspace{2cm}}$

9. $94\text{ m } 18\text{ cm} - 67\text{ m } 69\text{ cm} = \underline{\hspace{2cm}}$

10. $46\text{ m } 10\text{ cm} - 18\text{ m } 55\text{ cm} = \underline{\hspace{2cm}}$

Section H: Word Problems

Solve these word problems. Show your work!

- Ribbon Problem:** Maria bought a ribbon that was 48 m 75 cm long. She used 29 m 88 cm of it to decorate her room. How much ribbon is left?

Answer: _____

2. **Running Track:** A running track has two sections. The first section is 156 m 65 cm long and the second section is 187 m 85 cm long. What is the total length of the running track?

Answer: _____

3. **Rope Cutting:** A rope was 95 m 30 cm long. A worker cut off 67 m 75 cm from it. What is the length of the remaining rope?

Answer: _____

4. **Garden Path:** Mr. Sharma is building a garden path. On Monday, he built 38 m 68 cm. On Tuesday, he built 45 m 82 cm more. What is the total length of the path he built?

Answer: _____

5. **Cloth Purchase:** A tailor needs 125 m 50 cm of cloth to make curtains. He already has 78 m 85 cm of cloth. How much more cloth does he need to buy?

Answer: _____

Section I: Compare and Fill

Use $>$, $<$, or $=$ to compare.

1. 500 cm _____ 5 m
2. 8 m 45 cm _____ 845 cm
3. 70 mm _____ 7 cm
4. 12 m _____ 1200 mm
5. 950 cm _____ 10 m
6. 35 cm _____ 350 mm
7. 6 m 20 cm _____ 620 cm
8. 4500 mm _____ 4 m
9. 780 cm _____ 7 m 80 cm
10. 15 cm _____ 1500 mm

Section J: Challenge Problems

These are tricky! Do your best!

1. Convert and add: $450 \text{ cm} + 3 \text{ m } 80 \text{ cm} =$ _____ m _____ cm
2. A rope is 8 m 50 cm long. If you cut it into pieces of 85 cm each, how many pieces can you make? _____
3. Arrange in ascending order: 560 cm, 5 m 80 cm, 5800 mm, 6 m

Answer: _____

4. If 1 step = 45 cm, how many steps do you need to walk 9 m? _____
5. A wire is 12 m 75 cm long. Three pieces of 2 m 85 cm, 3 m 95 cm, and 4 m 70 cm are cut from it. What length of wire remains?

Answer: _____

Section A: Choose the Correct Unit

1. m (meters)
2. mm (millimeters)
3. m (meters)
4. cm (centimeters)
5. mm (millimeters)
6. m (meters)
7. mm (millimeters)
8. m (meters)
9. mm (millimeters)
10. m (meters)

Section B: Is It Measured in Length?

1. Ribbon: ✓
2. Sugar: ✗
3. Road: ✓
4. Milk: ✗
5. Rope: ✓
6. Rice: ✗
7. Wire: ✓
8. Oil: ✗
9. Curtain cloth: ✓
10. Honey: ✗

Section C: Unit Conversions

1. 80 mm = **8 cm**
2. 150 mm = **15 cm**
3. 9 cm = **90 mm**
4. 23 cm = **230 mm**
5. 400 cm = **4 m**
6. 850 cm = **8.5 m** or **8 m 50 cm**
7. 6 m = **600 cm**
8. 12 m = **1200 cm**
9. 3 m = **3000 mm**
10. 7000 mm = **7 m**

Section D: Addition (Vertical)

1. 45 m 65 cm + 28 m 75 cm = **74 m 40 cm**
2. 67 m 85 cm + 54 m 45 cm = **122 m 30 cm**
3. 82 m 90 cm + 39 m 55 cm = **122 m 45 cm**
4. 58 m 78 cm + 63 m 88 cm = **122 m 66 cm**
5. 76 m 95 cm + 48 m 85 cm = **125 m 80 cm**
6. 91 m 68 cm + 77 m 92 cm = **169 m 60 cm**
7. 35 m 48 cm + 29 m 37 cm = **64 m 85 cm**
8. 88 m 75 cm + 66 m 99 cm = **155 m 74 cm**
9. 53 m 87 cm + 69 m 78 cm = **123 m 65 cm**
10. 94 m 96 cm + 87 m 88 cm = **182 m 84 cm**

Section E: Addition (Horizontal)

1. $32\text{ m } 55\text{ cm} + 47\text{ m } 68\text{ cm} = \mathbf{80\text{ m } 23\text{ cm}}$
 2. $59\text{ m } 82\text{ cm} + 64\text{ m } 79\text{ cm} = \mathbf{124\text{ m } 61\text{ cm}}$
 3. $71\text{ m } 48\text{ cm} + 85\text{ m } 95\text{ cm} = \mathbf{157\text{ m } 43\text{ cm}}$
 4. $43\text{ m } 76\text{ cm} + 58\text{ m } 87\text{ cm} = \mathbf{102\text{ m } 63\text{ cm}}$
 5. $65\text{ m } 93\text{ cm} + 78\text{ m } 89\text{ cm} = \mathbf{144\text{ m } 82\text{ cm}}$
 6. $89\text{ m } 67\text{ cm} + 92\text{ m } 98\text{ cm} = \mathbf{182\text{ m } 65\text{ cm}}$
 7. $27\text{ m } 84\text{ cm} + 36\text{ m } 77\text{ cm} = \mathbf{64\text{ m } 61\text{ cm}}$
 8. $55\text{ m } 91\text{ cm} + 68\text{ m } 88\text{ cm} = \mathbf{124\text{ m } 79\text{ cm}}$
 9. $83\text{ m } 85\text{ cm} + 97\text{ m } 96\text{ cm} = \mathbf{181\text{ m } 81\text{ cm}}$
 10. $46\text{ m } 99\text{ cm} + 75\text{ m } 88\text{ cm} = \mathbf{122\text{ m } 87\text{ cm}}$
-

Section F: Subtraction (Vertical)

1. $85\text{ m } 45\text{ cm} - 38\text{ m } 78\text{ cm} = \mathbf{46\text{ m } 67\text{ cm}}$
 2. $92\text{ m } 30\text{ cm} - 47\text{ m } 65\text{ cm} = \mathbf{44\text{ m } 65\text{ cm}}$
 3. $76\text{ m } 25\text{ cm} - 58\text{ m } 88\text{ cm} = \mathbf{17\text{ m } 37\text{ cm}}$
 4. $64\text{ m } 15\text{ cm} - 29\text{ m } 67\text{ cm} = \mathbf{34\text{ m } 48\text{ cm}}$
 5. $81\text{ m } 40\text{ cm} - 56\text{ m } 95\text{ cm} = \mathbf{24\text{ m } 45\text{ cm}}$
 6. $95\text{ m } 20\text{ cm} - 68\text{ m } 75\text{ cm} = \mathbf{26\text{ m } 45\text{ cm}}$
 7. $73\text{ m } 35\text{ cm} - 45\text{ m } 89\text{ cm} = \mathbf{27\text{ m } 46\text{ cm}}$
 8. $88\text{ m } 10\text{ cm} - 59\text{ m } 58\text{ cm} = \mathbf{28\text{ m } 52\text{ cm}}$
 9. $67\text{ m } 28\text{ cm} - 39\text{ m } 79\text{ cm} = \mathbf{27\text{ m } 49\text{ cm}}$
 10. $54\text{ m } 12\text{ cm} - 27\text{ m } 85\text{ cm} = \mathbf{26\text{ m } 27\text{ cm}}$
-

Section G: Subtraction (Horizontal)

1. $78\text{ m } 60\text{ cm} - 45\text{ m } 85\text{ cm} = \mathbf{32\text{ m } 75\text{ cm}}$
2. $96\text{ m } 35\text{ cm} - 68\text{ m } 79\text{ cm} = \mathbf{27\text{ m } 56\text{ cm}}$

3. $84\text{ m } 20\text{ cm} - 57\text{ m } 68\text{ cm} = \mathbf{26\text{ m } 52\text{ cm}}$
 4. $72\text{ m } 45\text{ cm} - 49\text{ m } 87\text{ cm} = \mathbf{22\text{ m } 58\text{ cm}}$
 5. $91\text{ m } 15\text{ cm} - 64\text{ m } 78\text{ cm} = \mathbf{26\text{ m } 37\text{ cm}}$
 6. $65\text{ m } 30\text{ cm} - 38\text{ m } 95\text{ cm} = \mathbf{26\text{ m } 35\text{ cm}}$
 7. $83\text{ m } 48\text{ cm} - 56\text{ m } 89\text{ cm} = \mathbf{26\text{ m } 59\text{ cm}}$
 8. $57\text{ m } 25\text{ cm} - 29\text{ m } 76\text{ cm} = \mathbf{27\text{ m } 49\text{ cm}}$
 9. $94\text{ m } 18\text{ cm} - 67\text{ m } 69\text{ cm} = \mathbf{26\text{ m } 49\text{ cm}}$
 10. $46\text{ m } 10\text{ cm} - 18\text{ m } 55\text{ cm} = \mathbf{27\text{ m } 55\text{ cm}}$
-

Section H: Word Problems

1. **Ribbon Problem:**

- $48\text{ m } 75\text{ cm} - 29\text{ m } 88\text{ cm} = \mathbf{18\text{ m } 87\text{ cm}}$

2. **Running Track:**

- $156\text{ m } 65\text{ cm} + 187\text{ m } 85\text{ cm} = \mathbf{344\text{ m } 50\text{ cm}}$

3. **Rope Cutting:**

- $95\text{ m } 30\text{ cm} - 67\text{ m } 75\text{ cm} = \mathbf{27\text{ m } 55\text{ cm}}$

4. **Garden Path:**

- $38\text{ m } 68\text{ cm} + 45\text{ m } 82\text{ cm} = \mathbf{84\text{ m } 50\text{ cm}}$

5. **Cloth Purchase:**

- $125\text{ m } 50\text{ cm} - 78\text{ m } 85\text{ cm} = \mathbf{46\text{ m } 65\text{ cm}}$
-

Section I: Compare and Fill

1. $500\text{ cm} = 5\text{ m}$
2. $8\text{ m } 45\text{ cm} = 845\text{ cm}$
3. $70\text{ mm} = 7\text{ cm}$
4. $12\text{ m} > 1200\text{ mm}$ ($12\text{ m} = 12,000\text{ mm}$)

5. $950 \text{ cm} < 10 \text{ m}$ ($10 \text{ m} = 1000 \text{ cm}$)
 6. $35 \text{ cm} = 350 \text{ mm}$
 7. $6 \text{ m } 20 \text{ cm} = 620 \text{ cm}$
 8. $4500 \text{ mm} > 4 \text{ m}$ ($4 \text{ m} = 4000 \text{ mm}$)
 9. $780 \text{ cm} = 7 \text{ m } 80 \text{ cm}$
 10. $15 \text{ cm} < 1500 \text{ mm}$ ($1500 \text{ mm} = 150 \text{ cm}$)
-

Section J: Challenge Problems

1. Convert and add: $450 \text{ cm} + 3 \text{ m } 80 \text{ cm}$
 - $450 \text{ cm} = 4 \text{ m } 50 \text{ cm}$
 - $4 \text{ m } 50 \text{ cm} + 3 \text{ m } 80 \text{ cm} = \mathbf{8 \text{ m } 30 \text{ cm}}$
2. Rope pieces:
 - $8 \text{ m } 50 \text{ cm} = 850 \text{ cm}$
 - $850 \div 85 = \mathbf{10 \text{ pieces}}$
3. Arrange in ascending order:
 - $560 \text{ cm} = 5.6 \text{ m}$
 - $5 \text{ m } 80 \text{ cm} = 5.8 \text{ m}$
 - $5800 \text{ mm} = 5.8 \text{ m}$
 - $6 \text{ m} = 6 \text{ m}$
 - **Answer: 560 cm, 5 m 80 cm, 5800 mm, 6 m**
 - (or 560 cm, 5800 mm, 5 m 80 cm, 6 m as $5 \text{ m } 80 \text{ cm} = 5800 \text{ mm}$)
4. Steps needed:
 - $9 \text{ m} = 900 \text{ cm}$
 - $900 \div 45 = \mathbf{20 \text{ steps}}$
5. Remaining wire:
 - Total cuts: $2 \text{ m } 85 \text{ cm} + 3 \text{ m } 95 \text{ cm} + 4 \text{ m } 70 \text{ cm} = 11 \text{ m } 50 \text{ cm}$

- Remaining: $12\text{ m } 75\text{ cm} - 11\text{ m } 50\text{ cm} = \mathbf{1\text{ m } 25\text{ cm}}$

Comments:

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