

Measuring Length with Tools

Name: _____

Date: _____

Score: _____ / 24

Q Quick Review

We measure how **long** something is with tools like a **ruler**, a **yardstick**, or a **measuring tape**. To measure with a ruler, line up one end of the object with the 0 mark. Then read the number at the other end. Small things are measured in **inches** or **centimeters**. Longer things use **feet**. Always pick a tool that fits what you are measuring — a ruler for a pencil, a measuring tape for a room.

◇ **Example:** A marker is lined up with the 0 mark on a ruler. Its other end reaches the 5 mark. How long is the marker?
 ⇒ First, we check that one end of the marker is at the 0 mark — it is. Next, we look at where the other end stops. It reaches the 5 mark on the ruler. The number where the object ends tells us the length. So the marker is 5 inches long.

Answer: 5 inches

PRACTICE

Measure or choose the best tool for each item.

- A pencil starts at 0 and ends at the 6 mark. How long is it? _____
- A crayon starts at 0 and ends at the 3 mark. How long is it? _____
- A straw starts at 0 and ends at the 8 mark on a ruler. How long is it? _____
- A leaf ends at the 4 mark when one end is at 0. How long is the leaf? _____
- Best tool to measure a paper clip: a ruler or a yardstick? _____
- Best tool to measure a classroom wall: a ruler or a measuring tape? _____
- Best tool to measure the length of a soccer field: a ruler or a measuring tape? _____
- Best tool to measure a button: a ruler or a yardstick? _____
- A stick ends at the 10 mark with one end at 0. How long is the stick? _____
- A bookmark ends at the 7 mark with one end at 0. How long is it? _____
- A worm measures from 0 to the 5 centimeter mark. How long is it? _____
- An eraser measures from 0 to the 2 centimeter mark. How long is it? _____
- A nail measures from 0 to the 9 centimeter mark. How long is it? _____
- Which unit measures a tiny seed: inches or feet? _____
- Which unit measures the length of a couch: inches or feet? _____
- A toy car ends at the 4 mark with one end at 0. How long is the car? _____
- You start measuring a key. Where should one end of the key be on the ruler? _____
- A ribbon measures from 0 to the 12 centimeter mark. How long is it? _____
- Best tool to measure how tall a door is: a ruler or a yardstick? _____
- A chalk piece ends at the 3 mark with one end at 0. How long is the chalk? _____

◆ Word Problems

- Mia places her new pencil on a ruler. One end is at the 0 mark and the other end reaches the 7 mark. How long is Mia's pencil? _____
- Mr. Lee wants to measure the length of the classroom rug. Should he use a short ruler or a long measuring tape? _____
- Sam measures a caterpillar with a centimeter ruler. One end is at 0 and the other end is at the 6 mark. How long is the caterpillar? _____



24. Ava needs to measure how tall the door of her room is. Which tool is best: a small ruler or a yardstick? _____



Answer Keys

- | | |
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| 1. <input type="text" value="6inches"/> | 13. <input type="text" value="9cm"/> |
| 2. <input type="text" value="3inches"/> | 14. <input type="text" value="inches"/> |
| 3. <input type="text" value="8inches"/> | 15. <input type="text" value="feet"/> |
| 4. <input type="text" value="4inches"/> | 16. <input type="text" value="4inches"/> |
| 5. <input type="text" value="aruler"/> | 17. <input type="text" value="the0mark"/> |
| 6. <input type="text" value="ameasuringtape"/> | 18. <input type="text" value="12cm"/> |
| 7. <input type="text" value="ameasuringtape"/> | 19. <input type="text" value="ayardstick"/> |
| 8. <input type="text" value="aruler"/> | 20. <input type="text" value="3inches"/> |
| 9. <input type="text" value="10inches"/> | 21. <input type="text" value="7 inches"/> |
| 10. <input type="text" value="7inches"/> | 22. <input type="text" value="a long measuring tape"/> |
| 11. <input type="text" value="5cm"/> | 23. <input type="text" value="6 centimeters"/> |
| 12. <input type="text" value="2cm"/> | 24. <input type="text" value="a yardstick"/> |

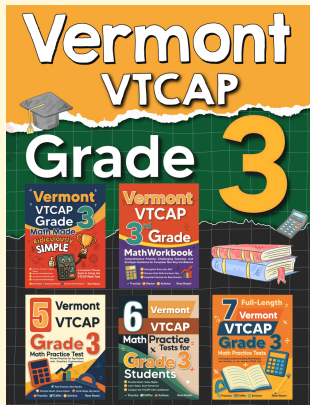
Step-by-Step Explanations

- | | |
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| <p>1. The end of the pencil reaches the 6 mark, so the pencil is 6 inches long.</p> <p>2. The crayon ends at the 3 mark, so it is 3 inches long.</p> <p>3. The straw stops at the 8 mark, so its length is 8 inches.</p> <p>4. The leaf reaches the 4 mark, so it measures 4 inches.</p> <p>5. A paper clip is very small, so a ruler is the right tool.</p> <p>6. A wall is long, so a measuring tape works better than a short ruler.</p> <p>7. A field is very long, so a long measuring tape is the best tool.</p> <p>8. A button is tiny, so a ruler measures it best.</p> <p>9. The stick reaches the 10 mark, so it is 10 inches long.</p> <p>10. The bookmark stops at the 7 mark, so it is 7 inches long.</p> <p>11. The worm reaches the 5 cm mark, so it is 5 centimeters long.</p> <p>12. The eraser ends at the 2 cm mark, so it is 2 centimeters long.</p> <p>13. The nail stops at the 9 cm mark, so it is 9 centimeters long.</p> <p>14. A seed is very small, so we measure it in inches, not feet.</p> | <p>15. A couch is long, so feet is the better unit.</p> <p>16. The toy car reaches the 4 mark, so it is 4 inches long.</p> <p>17. Always line up one end of the object with the 0 mark before reading the length.</p> <p>18. The ribbon ends at the 12 cm mark, so it is 12 centimeters long.</p> <p>19. A door is tall, so a yardstick measures it better than a short ruler.</p> <p>20. The chalk reaches the 3 mark, so it is 3 inches long.</p> <p>21. One end of the pencil is at 0 and the other end stops at the 7 mark. The pencil is 7 inches long.</p> <p>22. A rug is much longer than a ruler. A long measuring tape can reach across the whole rug at once.</p> <p>23. The caterpillar starts at the 0 mark and ends at the 6 mark, so it is 6 centimeters long.</p> <p>24. A door is tall, so a yardstick is the best tool. A small ruler would be too short to measure it easily.</p> |
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