

# Comparing Lengths

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 24

## Q Quick Review

When two objects are measured in the **same unit**, we can compare their lengths. The object with the bigger number is **longer**, and the one with the smaller number is **shorter**. To find out **how much longer** one object is, we **subtract** the smaller length from the bigger length. For example, if a pen is 14 cm and a pencil is 9 cm, the pen is  $14 - 9 = 5$  cm longer. Always keep the unit with your answer.

◇ **Example:** A pencil is 18 cm and a crayon is 7 cm. How much longer is the pencil?  
 ⇒ Both lengths are in centimeters, so we can compare them. The pencil (18 cm) is longer than the crayon (7 cm). To find how much longer, we subtract:  $18 - 7 = 11$ . So the pencil is 11 cm longer than the crayon.

**Answer:** 11 cm

## PRACTICE

Compare the lengths and answer each question.

- A pencil is 18 cm and a crayon is 7 cm. How much longer is the pencil? \_\_\_\_\_
- A ribbon is 20 in and a string is 12 in. How much longer is the ribbon? \_\_\_\_\_
- A rope is 15 ft and a hose is 9 ft. How much longer is the rope? \_\_\_\_\_
- A straw is 19 cm and a stick is 11 cm. How much longer is the straw? \_\_\_\_\_
- A blue line is 13 cm and a red line is 6 cm. Which is longer? \_\_\_\_\_
- A nail is 5 cm and a screw is 8 cm. Which is shorter? \_\_\_\_\_
- A snake is 40 in and a worm is 6 in. How much longer is the snake? \_\_\_\_\_
- A bat is 30 in and a glove is 11 in. How much longer is the bat? \_\_\_\_\_
- A path is 25 ft and a bridge is 18 ft. How much longer is the path? \_\_\_\_\_
- A scarf is 50 cm and a belt is 35 cm. How much longer is the scarf? \_\_\_\_\_
- A green pencil is 16 cm and a yellow pencil is 16 cm. Compare them. \_\_\_\_\_
- A ladder is 12 ft and a wall is 9 ft. How much taller is the ladder? \_\_\_\_\_
- A leaf is 9 cm and a twig is 14 cm. How much longer is the twig? \_\_\_\_\_
- A short jump is 24 in and a long jump is 33 in. How much longer is the long jump? \_\_\_\_\_
- A pen is 14 cm and a marker is 10 cm. How much longer is the pen? \_\_\_\_\_
- A train is 60 ft and a bus is 40 ft. How much longer is the train? \_\_\_\_\_
- A purple ribbon is 22 in and a pink ribbon is 17 in. How much longer is the purple one? \_\_\_\_\_
- A garden row is 35 ft and a flower bed is 28 ft. How much longer is the row? \_\_\_\_\_
- A spoon is 15 cm and a fork is 13 cm. Which is longer? \_\_\_\_\_
- A tall plant is 45 cm and a short plant is 26 cm. How much taller is the tall plant? \_\_\_\_\_

## ◆ Word Problems

- Carlos has a blue ribbon that is 24 inches long and a green ribbon that is 15 inches long. How much longer is the blue ribbon? \_\_\_\_\_
- A garden snake is 36 centimeters long. A garden worm is 8 centimeters long. How much longer is the snake than the worm? \_\_\_\_\_
- Tara jumped 42 inches. Her friend Lily jumped 30 inches. How much farther did Tara jump than Lily? \_\_\_\_\_



24. A red rope is 50 feet long and a yellow rope is 35 feet long. How much longer is the red rope? \_\_\_\_\_



## Answer Keys

- |                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| 1. <input type="text" value="11cm"/>          | 13. <input type="text" value="5cm"/>            |
| 2. <input type="text" value="8in"/>           | 14. <input type="text" value="9in"/>            |
| 3. <input type="text" value="6ft"/>           | 15. <input type="text" value="4cm"/>            |
| 4. <input type="text" value="8cm"/>           | 16. <input type="text" value="20ft"/>           |
| 5. <input type="text" value="theblueine"/>    | 17. <input type="text" value="5in"/>            |
| 6. <input type="text" value="thenail"/>       | 18. <input type="text" value="7ft"/>            |
| 7. <input type="text" value="34in"/>          | 19. <input type="text" value="thespoon"/>       |
| 8. <input type="text" value="19in"/>          | 20. <input type="text" value="19cm"/>           |
| 9. <input type="text" value="7ft"/>           | 21. <input type="text" value="9 inches"/>       |
| 10. <input type="text" value="15cm"/>         | 22. <input type="text" value="28 centimeters"/> |
| 11. <input type="text" value="theyareequal"/> | 23. <input type="text" value="12 inches"/>      |
| 12. <input type="text" value="3ft"/>          | 24. <input type="text" value="15 feet"/>        |

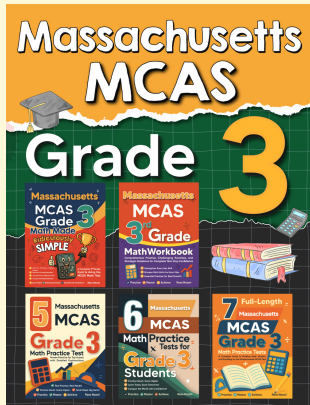
### Step-by-Step Explanations

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| <p>1. Subtract the smaller length: <math>18 - 7 = 11</math>, so the pencil is 11 cm longer.</p> <p>2. Subtract: <math>20 - 12 = 8</math>, so the ribbon is 8 inches longer.</p> <p>3. Subtract: <math>15 - 9 = 6</math>, so the rope is 6 feet longer.</p> <p>4. Subtract: <math>19 - 11 = 8</math>, so the straw is 8 cm longer.</p> <p>5. 13 is greater than 6, so the blue line is longer.</p> <p>6. 5 is less than 8, so the nail is the shorter one.</p> <p>7. Subtract: <math>40 - 6 = 34</math>, so the snake is 34 inches longer.</p> <p>8. Subtract: <math>30 - 11 = 19</math>, so the bat is 19 inches longer.</p> <p>9. Subtract: <math>25 - 18 = 7</math>, so the path is 7 feet longer.</p> <p>10. Subtract: <math>50 - 35 = 15</math>, so the scarf is 15 cm longer.</p> <p>11. Both pencils are 16 cm, so they are the same length.</p> <p>12. Subtract: <math>12 - 9 = 3</math>, so the ladder is 3 feet taller.</p> <p>13. Subtract: <math>14 - 9 = 5</math>, so the twig is 5 cm longer.</p> | <p>14. Subtract: <math>33 - 24 = 9</math>, so the long jump is 9 inches longer.</p> <p>15. Subtract: <math>14 - 10 = 4</math>, so the pen is 4 cm longer.</p> <p>16. Subtract: <math>60 - 40 = 20</math>, so the train is 20 feet longer.</p> <p>17. Subtract: <math>22 - 17 = 5</math>, so the purple ribbon is 5 inches longer.</p> <p>18. Subtract: <math>35 - 28 = 7</math>, so the garden row is 7 feet longer.</p> <p>19. 15 is greater than 13, so the spoon is longer.</p> <p>20. Subtract: <math>45 - 26 = 19</math>, so the tall plant is 19 cm taller.</p> <p>21. Both ribbons are measured in inches. Subtract the shorter from the longer: <math>24 - 15 = 9</math> inches.</p> <p>22. Subtract the worm's length from the snake's length: <math>36 - 8 = 28</math> centimeters longer.</p> <p>23. Compare the two jumps by subtracting: <math>42 - 30 = 12</math>. Tara jumped 12 inches farther.</p> <p>24. Subtract the yellow rope from the red rope: <math>50 - 35 = 15</math> feet longer.</p> |
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