

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

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

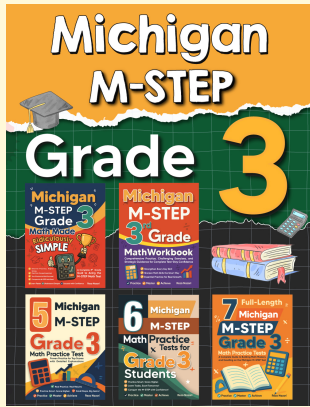
Step-by-Step Explanations

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