

Grade 2 · Measuring Length · Worksheet

Answer Key

Common Core 2.MD.A.1, 2.MD.A.2, 2.MD.A.3, 2.MD.A.4, 2.MD.B.5, 2.MD.B.6 · mathovore.fr

Here are the full worked solutions for the 22 length problems. Check each ruler reading and each equation, then fix any mistakes. Notice the unit in every answer.

Grade 2 Common Core: 2.MD.A.1 · 2.MD.A.2 · 2.MD.A.3 · 2.MD.A.4 · 2.MD.B.5 · 2.MD.B.6

Problem 1: Read the inch ruler

The pencil starts at 0 and ends at 7. The length is **7 inches**.

Problem 2: Read the centimeter ruler

The ribbon starts at 0 and ends at 9. The length is **9 centimeters**.

Problem 3: Pick the tool

- a. A crayon is short: **inch ruler**.
- b. A bookshelf of 3 feet fits a yardstick: **yardstick**.
- c. The playground is very long: **measuring tape**.

Problem 4: Choose the unit

- a. A stamp is tiny: **inches**.
- b. A car is long: **feet**.
- c. A paper clip is tiny: **inches**.

Problem 5: Measure twice

A centimeter is a shorter unit than an inch. It takes more short units to cover the same length. So the number is bigger: **25 is bigger than 10**.

Problem 6: How much longer

Blue is longer. $13 - 8 = 5$. Blue is **5 inches longer**.

Problem 7: Estimate with paper clips

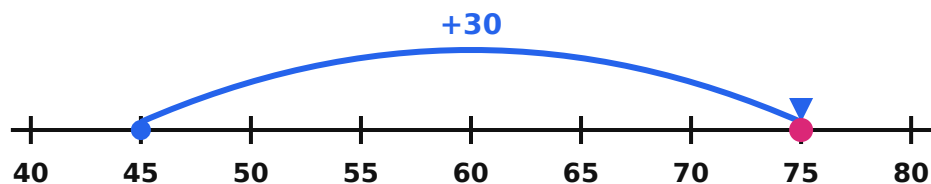
Each paper clip is about 1 inch, so 7 paper clips are about 7 inches. The pencil is about **7 inches** long.

Problem 8: Start at 2

The marker starts at 2 and ends at 7. Count the inches between: 3, 4, 5, 6, 7 is 5 steps. Or $7 - 2 = 5$. The marker is **5 inches** long.

Problem 9: Add on a number line

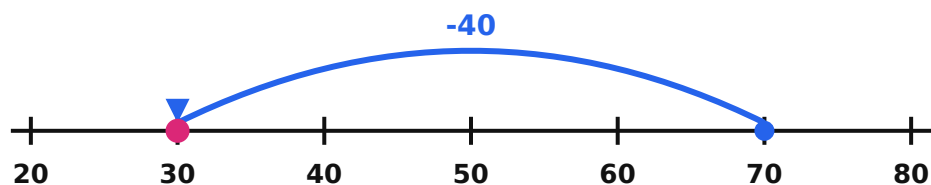
Jump 30 to the right from 45. $45 + 30 = 75$. The rope is now **75 feet** long.



One jump of 30 from 45 lands on 75.

Problem 10: Subtract on a number line

Jump 40 to the left from 70. $70 - 40 = 30$. The string is now **30 inches** long.



One jump of 40 to the left from 70 lands on 30.

Problem 11: Write an equation

$45 - 20 = ?$. Since $45 - 20 = 25$, there are **25 feet** left to paint.

Problem 12: Order the lengths

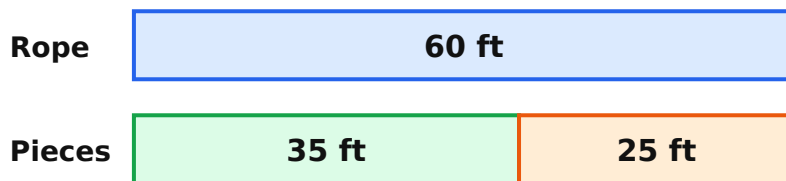
Compare the tens first: 18, then 22 and 25, then 31. Check 22 is less than 25. Order: **18 cm, 22 cm, 25 cm, 31 cm**.

Problem 13: Is it reasonable

No. 70 inches is almost as tall as a grown-up. A new pencil is about 7 inches long. Diego should say **7 inches**.

Problem 14: Find the missing part

Subtract the known piece from the whole: $60 - 35 = 25$. Check: $35 + 25 = 60$. The other piece is **25 feet** long.



The missing piece is 25 feet.

Problem 15: Three jumps

$20 + 30 = 50$ and $50 + 15 = 65$. She hops **65 feet** in all.

Problem 16: Hallway and gym

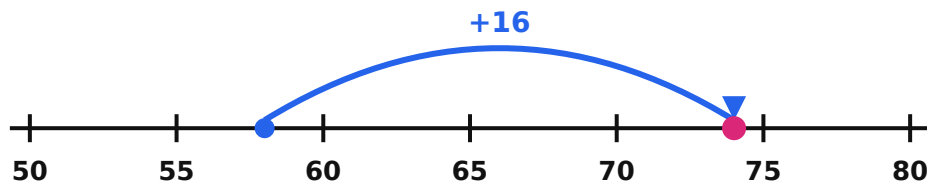
$48 - 35 = 13$. The hallway is **13 meters** longer.

Problem 17: Garden rows

Add: $36 + 29 = 65$. Check: $36 + 30 = 66$, then take away 1 to get 65. There are **65 feet** of rows.

Problem 18: Race on the track

Find the distance between 58 and 74. $74 - 58 = 16$. Noah runs **16 meters** farther.



A jump of 16 from 58 lands on 74.

Problem 19: Gift ribbon

$90 - 45 = 45$, then $45 - 30 = 15$. There are **15 cm** left.

Problem 20: Feet and inches

Yes. One foot is 12 inches, and $12 + 12 = 24$, so 2 feet is 24 inches. The inch is a shorter unit, so the number is bigger. **Both are right.**

Problem 21: Two ribbons

- a. $47 + 28 = 75$. Together: **75 inches**.
- b. $47 - 28 = 19$. Mei's ribbon is **19 inches** longer.

Problem 22: Train track

$48 + 27 = 75$, then $75 - 15 = 60$. The track is now **60 inches** long.