



GRADE 2 / WATCH MR DJ SOLVE

ESTIMATING LENGTHS

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

A classroom doorway is about 2 meters or 2 centimeters tall. Choose the sensible unit and explain.

- 1 A centimeter is about a small fingernail width.
- 2 A doorway is much taller.
- 3 Meters suit this estimate.

Answer: **Meters.**



REMEMBER make sensible length estimates using inches, feet, centimeters and meters.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 2 / WORKED METHODS

ESTIMATING LENGTHS

Read a complete example before trying the matching method.



Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

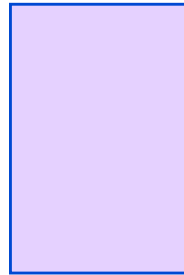
Use a length benchmark

A pencil near 15 cm is sensible

1. Picture a centimeter on a real ruler.
2. A pencil needs several small units.
3. 15 meters would be far too long.



Pencil: about 15 cm



Doorway: about 2 m

Benchmarks, not objects drawn to the same scale



GRADE 2 / WORKED METHODS

ESTIMATING LENGTHS

Read a complete example before trying the matching method.

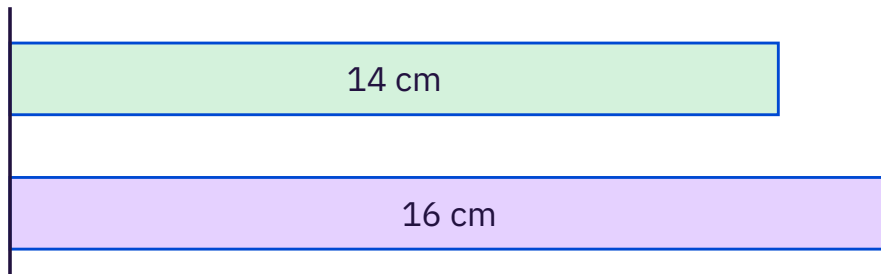


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Estimate, then check

14 cm estimated; 16 cm measured

1. Write the estimate before measuring.
2. Measure with the same unit.
3. The estimate was 2 cm short.



$$\text{Extra length: } 16 - 14 = 2 \text{ cm}$$



GRADE 2 / MATHEMATICAL WORK TOOL

ESTIMATING LENGTHS

Draw, label and explain.



Make equal intervals and label zero and the unit. For number lines, keep one scale. This page is not a calibrated ruler: use a real ruler for measuring objects.





GRADE 2 / PRACTICE

ESTIMATING LENGTHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

☞ Mild

1. A pencil is about 12 centimeters or 12 meters long. Choose and explain.

Grid area for working out the answer to Question 1.

My answer / conclusion: _____

☞ Mild

2. A room wall might be 8 feet or 8 inches long. Which is more sensible?

Grid area for working out the answer to Question 2.

My answer / conclusion: _____



Date _____

ESTIMATING LENGTHS

A cartoon fox character with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

Medium 3. Estimate a book edge in inches. Then measure it with a real ruler.



GRADE 2 / PRACTICE

ESTIMATING LENGTHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

4. Estimate a desk edge in centimeters. Then check with a ruler.

My answer / conclusion: _____



GRADE 2 / PRACTICE

ESTIMATING LENGTHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

◀ Medium

5. A playground path is about 10 meters or 10 inches. Explain your choice.

Grid area for student work.

My answer / conclusion: _____



Date _____

ESTIMATING LENGTHS

A cartoon fox mascot with orange fur, large eyes, and a purple scarf, holding a yellow pencil.

Spicy 6. Digit estimates a 12-cm pencil as 12 meters. What benchmark could help?

My answer / conclusion: _____



GRADE 2 / PRACTICE

ESTIMATING LENGTHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Your estimate for a book is 12 cm; the measured length is 14 cm. Was the estimate useful? Explain.

Grid area for student response.

My answer / conclusion: _____



GRADE 2 / PRACTICE

ESTIMATING LENGTHS

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Extra Spicy

8. Find something about 2 feet long and something about 2 inches long. Explain how the same number can name different lengths.

Grid area for student work.

My answer / conclusion: _____
