



GRADE 2 / WATCH MR DJ SOLVE

MEASURING WITH DIFFERENT-SIZED UNITS

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

A strip is 8 cm long. Cover it with 1-cm units. How many units?

- 1 Use equal units.
- 2 Each covers 1 cm.
- 3 8 units cover 8 cm.

Answer: **8 units**



REMEMBER compare measurements of the same length made with different-sized units.

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

MEASURING WITH DIFFERENT-SIZED UNITS

Read a complete example before trying the matching method.

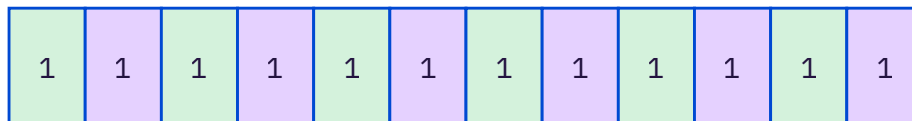


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Smaller units need a larger count

12 one-cm units cover the strip

1. Keep the strip fixed.
2. Lay 1-cm units with no gaps.
3. Twelve units cover 12 cm.



12 units, each 1 cm long

Same whole strip: 12 cm



GRADE 2 / WORKED METHODS

MEASURING WITH DIFFERENT-SIZED UNITS

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.

Larger units need a smaller count

6 two-cm units cover the same strip

1. Use the same endpoints.
2. Each new unit covers two old units.
3. Six larger units cover 12 cm.



6 units, each 2 cm long

Same whole strip: 12 cm



GRADE 2 / MATHEMATICAL WORK TOOL

MEASURING WITH DIFFERENT-SIZED UNITS

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

MEASURING WITH DIFFERENT-SIZED UNITS

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. Cover the same 8-cm strip with 2-cm units. How many units?

My answer / conclusion: _____



GRADE 2 / PRACTICE

MEASURING WITH DIFFERENT-SIZED UNITS

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

2. The same 8-cm strip uses 8 small units or 4 large units. Which unit is longer?

My answer / conclusion: _____



Date _____

MEASURING WITH DIFFERENT-SIZED UNITS

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

Medium 3. Use a real ruler to measure the same book edge in centimeters and inches. Record both nearest whole-unit readings.

My answer / conclusion: _____



Date _____

MEASURING WITH DIFFERENT-SIZED UNITS

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

Medium 4. A path uses 8 units that are 1 cm each. Would it need more or fewer 2-cm units? Explain.

My answer / conclusion: _____



GRADE 2 / PRACTICE

MEASURING WITH DIFFERENT-SIZED UNITS

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. Draw 4 equal 2-cm model units and split each into two 1-cm units.

Count the small units.

My answer / conclusion: _____



GRADE 2 / PRACTICE

MEASURING WITH DIFFERENT-SIZED UNITS

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

6. Digit says a strip measured with 8 small units is longer than the same strip measured with 4 large units. Explain the mistake.

Grid area for student response.

My answer / conclusion: _____



GRADE 2 / PRACTICE

MEASURING WITH DIFFERENT-SIZED UNITS

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. For the same 8-cm strip, can using a longer unit give a larger count if there are no gaps? Explain.

Grid area for drawing and explanation.

My answer / conclusion: _____



GRADE 2 / PRACTICE

MEASURING WITH DIFFERENT-SIZED UNITS

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. Two children measure a strip. One gets 8 units; the other gets 4.

What could explain this?

Grid area for drawing or writing.

My answer / conclusion: _____