



GRADE 4 / WATCH MR DJ SOLVE

CONVERTING MEASUREMENT UNITS

Start with the same example used in the lesson slides.

**WATCH MR DJ SOLVE****Convert 3 m to cm. Use 1 m = 100 cm. Explain the size of the new count.**

- 1 Each m contains 100 cm.
- 2 $3 \times 100 = 300$.
- 3 A smaller unit needs more units for the same amount.

Answer: **300 cm****REMEMBER** Use a stated unit relationship to rename the same amount within one measurement system.

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 4 / WORKED METHODS****CONVERTING MEASUREMENT 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.

Rename meters as centimeters

$3 \text{ m} = 300 \text{ cm}$

1. One meter contains 100 centimeters.
2. Three meters contain $3 \times 100 = 300$ centimeters.
3. The length is unchanged; the counting unit is smaller.

Same length; smaller counting unit

$$1 \text{ m} = 100 \text{ cm}$$

$$3 \text{ m} = 300 \text{ cm}$$



GRADE 4 / WORKED METHODS

CONVERTING MEASUREMENT 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.

Combine mixed units

2 m 35 cm = 235 cm

1. Rename 2 m as 200 cm.
2. Add the other 35 cm: $200 + 35 = 235$.
3. Both parts now use centimeters.



Date _____

CONVERTING MEASUREMENT UNITS

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

1. Convert 2 kg to g. Use $1 \text{ kg} = 1000 \text{ g}$. Explain the size of the new count.

2. Convert 4 ft to in. Use $1 \text{ ft} = 12 \text{ in.}$ Explain the size of the new count.

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Date _____

CONVERTING MEASUREMENT UNITS

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

Medium 3. Express 2 m 35 cm using only centimeters.

Medium 4. A trip takes 1 h and 25 min. Express the whole time in minutes.

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GRADE 4 / PRACTICE

CONVERTING MEASUREMENT 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. Convert 2 yd to ft. Use 1 yd = 3 ft. Explain the size of the new count.

Grid area for working out the conversion of 2 yd to ft.

My answer / conclusion: _____

🔊🔊🔊 Spicy

6. Tan converts 3 m to 300 cm. Digit says the length became 100 times longer. Explain.

Grid area for working out the conversion of 3 m to 300 cm.

My answer / conclusion: _____

GRADE 4 / PRACTICE

CONVERTING MEASUREMENT 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. Does “multiply by 100” convert every larger unit into a smaller one? Refute and explain the rule.

My answer / conclusion: _____



GRADE 4 / PRACTICE

CONVERTING MEASUREMENT 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 strips are labeled 2 m 50 cm and 250 cm. Explain whether they can be the same length using two methods.

Grid area for student work.

My answer / conclusion: _____