LESSON MAKER PRO

Meter Mix-Up

Turn meters into centimeters to solve length problems.

GRADE 4 · 4.M.A.22.a

4.M.A.22.a "Solve measurement problems involving simple fractions or decimals."

NAME _____ DATE _____

FROM METERS TO CENTIMETERS

One meter equals 100 centimeters. To change meters to centimeters, multiply by 100. For a fraction of a meter, find that fraction of 100.

WORKED EXAMPLE

How many centimeters are in 3/5 m?

1. 1 m = 100 cm.
2. 100 ÷ 5 = 20 cm for each fifth.
3. 20 × 3 = 60 cm.

Answer: 60 cm

PRACTICE 6 problems

1 How many centimeters are in 1/2 m?

ANSWER _____

2 How many centimeters are in 1/4 m?

ANSWER _____

3 How many centimeters are in 1 1/2 m?

ANSWER _____

4 How many centimeters are in 0.7 m?

ANSWER _____

5 A cord is 2.4 m long. Write its length in centimeters.

ANSWER _____

6 Which is longer, 0.09 m or 8 cm? By how many centimeters?

ANSWER _____

APPLY IT Show your work

1 A class needs 1.8 m of tape to mark a floor game. They have 200 cm of tape. How many centimeters will be left?

WORK SPACE

ANSWER _____

2 Maya cuts 1/4 m of ribbon and 0.8 m of ribbon for a costume. How many centimeters of ribbon does she cut in all?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says 2.06 m equals 26 cm. Is the student correct? Give the correct length and explain why in one sentence.

WORK SPACE AND ANSWER

ANSWER KEY

Meter Mix-Up

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	How many centimeters are in 1/2 m?	**50 cm**
2	How many centimeters are in 1/4 m?	**25 cm**
3	How many centimeters are in 1 1/2 m?	**150 cm**
4	How many centimeters are in 0.7 m?	**70 cm**
5	A cord is 2.4 m long. Write its length in centimeters.	**240 cm**
6	Which is longer, 0.09 m or 8 cm? By how many centimeters?	**0.09 m is longer by 1 cm.**

PART 2 · APPLY IT

1. **20 cm** Convert 1.8 m to 180 cm. Subtract 180 cm from 200 cm.
2. **105 cm** Convert the lengths to 25 cm and 80 cm, then add them.

CHALLENGE

No, 2.06 m is 206 cm because 2 m is 200 cm and 0.06 m is 6 cm.

Accept equivalent wording for the comparison and explanation. Answers to length questions should include centimeters.