Measurement

Activity 1 Assessment
Unit Conversions

Unit Conversions

Understands the relationship among metric units of length and area

1 m^2: $12.99

100 cm^2: $10.99

I can visualize a square with 1 m side lengths. Since 1 m = 100 cm, there are 100 cm^2 in just one row of a square metre. So, 1 m^2 has 100 rows of 100 cm^2.
1 m^2 = 10 000 cm^2.
The 1 m^2 flag is much larger.

Uses metric relationships to convert from smaller to larger units to solve problems

40 000 cm^2 = _____ m^2

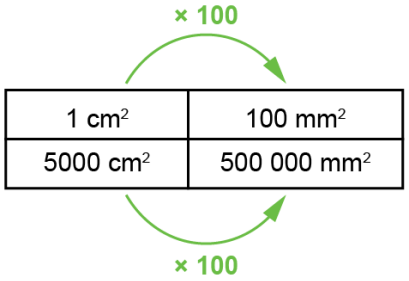
I know 1 m^2 = 10 000 cm^2.
I can use a ratio table to find 40 000 cm^2 = 4 m^2.

m^2	cm^2
1	10 000
2	20 000
3	30 000
4	40 000
10	?

Uses metric relationships to convert from larger to smaller units to solve problems

5000 cm^2 = _____ mm^2

I know 1 cm^2 = 100 mm^2.
I can use ratios to find 5000 cm^2 = 500 000 mm^2.



Uses metric relationships to solve problems

A table top has an area of 2 m^2. Would 700 square tiles with 5 cm sides be enough to cover the table top?

I converted the area of table:
2 m^2 = 20 000 cm^2.
Then, I calculated the area of the tiles:
5 × 5 × 700 = 17 500 cm^2
Since 17 500 cm^2 < 20 000 cm^2, there are not enough tiles to cover the table top.

Observations/Documentation