

Area and Perimeter: math test, Grade 3 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Tiles and rows

/ 3 pts

A kitchen floor is covered with 1-foot square tiles in 6 rows of 8 tiles. A pantry floor is covered with 9 rows of 5 tiles.

- Write a multiplication sentence and find the area of the kitchen floor.
- Which floor has the greater area, and by how much?

2 Rectangle measures

/ 4 pts

No calculator.

- A rectangle is 11 m long and 8 m wide. Find its area and its perimeter.
- Another rectangle has an area of 72 square inches and a length of 9 in. Find its width and its perimeter.

3 Break it apart

/ 4 pts

A rectangular mural is 9 ft long and 7 ft tall. Mina splits the length 9 into $6 + 3$.

- Find the area of the part that is 6 ft long and the part that is 3 ft long, both 7 ft tall.
- Find the area of the whole mural.
- Name the property Mina used.

4 Around the polygon

/ 3 pts

- A pentagon has sides of 5 cm, 8 cm, 6 cm, 9 cm, and 4 cm. Find its perimeter.
- A triangle has a perimeter of 27 in. Two sides are 10 in and 8 in. Find the third side.

5 Same area

/ 3 pts

Rectangles with an area of 18 square units have whole-number sides.

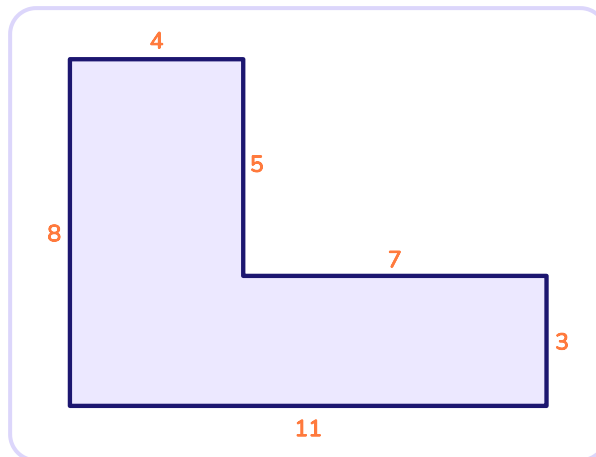
- Complete a table of all the possible length and width pairs, with the perimeter of each.
- Which rectangle has the smallest perimeter?

6

An L-shaped room

/ 3 pts

The plan shows an L-shaped room. All lengths are in meters.



- Find the area of the room.
- Find the perimeter of the room.

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