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Area / Perimeter Worksheet

<p>1a. Find the missing side length, when the area is 16 square units.</p>	<p>1b. Find the missing side length, when the area is 24 square units.</p>
<p>2a. Find the perimeter of the rectangle.</p>	<p>2b. Find the perimeter of the rectangle.</p>
<p>3a. Find the area of the rectangle.</p>	<p>3b. Find the missing side length, when the perimeter is 20.</p>
<p>4a. Find the area of the square.</p>	<p>4b. Find the area of the rectangle.</p>

Name: _____ Score: _____

Rectangle - Area

Example:

Perimeter = $2 \times (\text{Length} + \text{Width})$
 $16 \text{ cm} = 2 \times (5 \text{ cm} + \text{width})$
 $\frac{16}{2} = 5 \text{ cm} + \text{width}$
 $8 = 5 \text{ cm} + \text{width}$
 $\text{width} = 8 - 5 = 3 \text{ cm}$

Area = Length x Width
 $= 5 \text{ cm} \times 3 \text{ cm}$
 $= 15 \text{ cm}^2$

Find the area of each rectangle.

<p>1) Perimeter = 30 cm Width = _____ Area = _____</p>	<p>2) Perimeter = 20 yd Length = _____ Area = _____</p>	<p>3) Perimeter = 26 ft Width = _____ Area = _____</p>
<p>4) Perimeter = 20 in Length = _____ Area = _____</p>	<p>5) Perimeter = 20 m Width = _____ Area = _____</p>	<p>6) Perimeter = 34 yd Length = _____ Area = _____</p>
<p>7) Perimeter = 30 mm Width = _____ Area = _____</p>	<p>8) Perimeter = 42 ft Length = _____ Area = _____</p>	<p>9) Perimeter = 46 cm Width = _____ Area = _____</p>

per 6 units. So, the area is $6 \times 6 = 36$ square units. The diagonals are parallel, the right triangles from the decomposition of the parallelogram will correspond to each other, even when there is no grill to verify it. It should also be noted that the diagonal length of 4.5 units was not necessary to find the area. Lesson 4 Summary a parallelogram has all the following properties: it is a quadrilateral, that is, it is a polygon with 4 sides that both couples of opposite sides are parallel, that is, they never intersect the opposite sides have the same length that the opposite corners They have the same. To find the area of a parallelogram. We can decompose and reorganize a parallelogram to form a rectangle. The image below shows three ways to decompose and reorganize a parallelogram: we can enclose the parallelogram and therefore remove the area of the two triangles in the corner. Both of these methods will work for any parallelogram. For some parallelograms, however, the decomposition and reorganization process requires many more passages compared to if we enclose the parallelogram with a rectangle and remove the combined area of the two triangles in the corners. Here is an example. Show the problems of example exercises 1. Select all parallelograms. For each figure who is not selected, he explains how you know it is not a parallelogram. Show figures responses The figure A is not a parallelogram because it has two non -parallel sides. Figure B is a parallelogram. Figure is a parallelogram. Squares and rectangles have all the properties of parallelograms. Figure D is not a parallelogram because it is not a quadrilateral. The figure is not a parallelogram because it is not a quadrilateral. 2. ? amargolellarap ?ammargolellarap led aera' "À lauQ .olgnatter nu eraerc rep amargolellarap otseuq azzinagroir e Your reasoning. Shows the responses of the figures this parallelogram can be decomposed and reorganized to make a rectangle 9 units of 5 units. The area of this rectangle, and therefore the area of the parallelogram, is $9 \times 5 = 45$ square units. 3. Find the parallelogram area. Shows responses of figure this parallelogram can be decomposed and reorganized to make a rectangle of 10 centimeters per 3 centimeters. The area of this rectangle, and therefore the area of the parallelogram, is $10 \times 3 = 30$ square units. Note that the diagonal length of 3.2 centimeters was not used to find the area. 4. Explain because this quadrilateral is not a parallelogram. Shows responses of figure this quadrilateral is not a parallelogram because a pair of opposite sides is not parallel, as shown: 5. Find the area of all shapes. Show your reasoning. Both figures can be decomposed and rearranged in rectangles whose area can be found by multiplying the side lengths. The figure on the left can be decomposed and rearranged in a rectangle of 2 units of 6 units. The rectangle area, and therefore the area of the figure, is $2 \times 6 = 12$ square units. The figure on the right can be decomposed and rearranged in two rectangles. A rectangle has an area of $1 \times 4 = 4$ square units, and the other has an area of $3 \times 5 = 15$ square units. The total area of the figure is $4 + 15 = 19$ square units. 6. Find the areas of rectangles with the following side lengths. 5 inches and 12 inches in b. 5 in E 4×3 in c. 5×2 in e 4×3 in d. 7×6 in e 6×7 in responses to. 5 in 1×3 in = 5×3 square inches = 12×3 square inches in 4×4 , 3 in = 20×3 square inches = 62×3 square inches the open mathematics curriculum Up Resources is free to download from the Open Up Resources website and is also available from illustrative mathematics. Try for free calculator and problem solver below to practice various topics of mathematics. Try the examples indicated, or type your problem and check the answer with step-by-step explanations. We accept your comments, comments and questions on this website or page. Please send your feedback or requests through our Feedback page. page.

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