

**Angles & Rectangles** page 1 of 2

**1** Alexis put two 90 degree angles together to make a new angle. How many degrees does the new angle measure?

**a**  $90^\circ \times 2 = \underline{\hspace{2cm}}$

**b** What kind of angle did Alexis make? Fill in the bubble to show.

- acute angle (less than  $90^\circ$ )
- right angle (exactly  $90^\circ$ )
- obtuse angle (more than  $90^\circ$  but less than  $180^\circ$ )
- straight angle (exactly  $180^\circ$ )

**2** Henry put three 45 degree angles together to make a new angle. How many degrees does the new angle measure?

**a**  $45^\circ \times 3 = \underline{\hspace{2cm}}$

**b** What kind of angle did Henry make? Fill in the bubble to show.

- acute angle
- right angle
- obtuse angle
- straight angle

**3** Austin put four 15 degree angles together to make a new angle. How many degrees does the new angle measure?

**a**  $15^\circ \times 4 = \underline{\hspace{2cm}}$

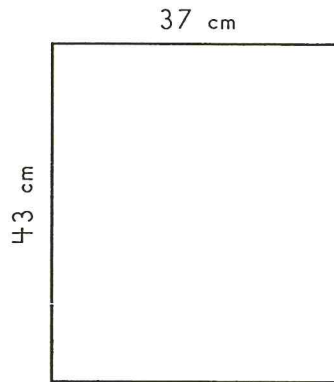
**b** What kind of angle did Austin make? Fill in the bubble to show.

- acute angle
- right angle
- obtuse angle
- straight angle

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**Angles & Rectangles** page 2 of 2

- 4** Claudia drew and labeled a rectangle. Here is a miniature picture of her rectangle. Use this picture to help answer the questions below.



- a** What is the sum of the 4 interior angles in Claudia's rectangle? Show your work.
- b** What is the perimeter of Claudia's rectangle? Show your work.
- c** What is the area of Claudia's rectangle? Show your work.
- d** **CHALLENGE** Claudia colored half of her rectangle blue. What is the area of the blue part of the rectangle? Show your work.