

GEOMETRY & REASONING

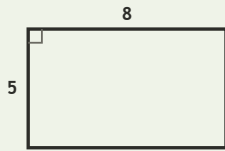
Spatial Lab • Sides, Perimeter, and Difference

Objective: Reason about shapes: perimeter, and how much longer one side is.

DO THIS Add the sides to find perimeter. Subtract to compare two sides.

SHAPE FACTS All sides are in centimetres. Add for perimeter; subtract to compare.

EXAMPLE



Perimeter (all sides in cm):

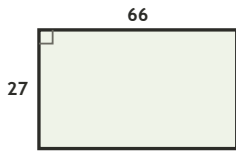
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

$$8 - 5 = \underline{3} \text{ cm}$$

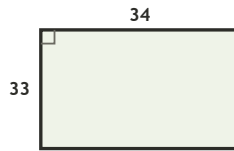
COMPARE SIDES How much longer is the long side, in cm?

1



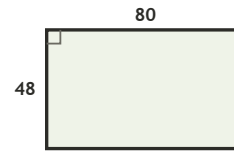
$$66 - 27 = \square \text{ cm longer}$$

2



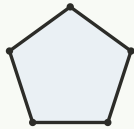
$$34 - 33 = \square \text{ cm longer}$$

3



$$80 - 48 = \square \text{ cm longer}$$

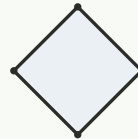
COUNT THE SIDES Write how many sides each shape has.



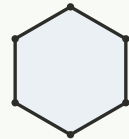
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 65 by 35 cm. Perimeter?

$$65 + 35 + 65 + 35 = \square \text{ cm}$$

2

Rectangle 84 by 70 cm. Perimeter?

$$84 + 70 + 84 + 70 = \square \text{ cm}$$

3

Rectangle 49 by 41 cm. Perimeter?

$$49 + 41 + 49 + 41 = \square \text{ cm}$$

4

Rectangle 36 by 34 cm. Perimeter?

$$36 + 34 + 36 + 34 = \square \text{ cm}$$

5

Rectangle 83 by 69 cm. Perimeter?

$$83 + 69 + 83 + 69 = \square \text{ cm}$$

6

Rectangle 57 by 48 cm. Perimeter?

$$57 + 48 + 57 + 48 = \square \text{ cm}$$

I used: addition (perimeter) subtraction (compare) counting (sides)

TEACHER EDITION

GEOMETRY & REASONING

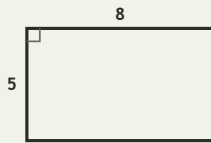
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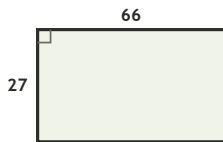
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

$$8 - 5 = \underline{3} \text{ cm}$$

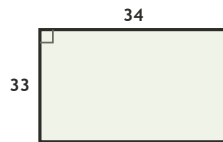
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1



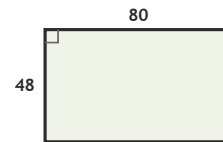
$$66 - 27 = \underline{39} \text{ cm longer}$$

2



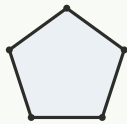
$$34 - 33 = \underline{1} \text{ cm longer}$$

3



$$80 - 48 = \underline{32} \text{ cm longer}$$

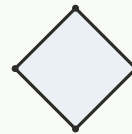
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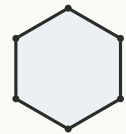
sides: 5



sides: 3



sides: 4



sides: 6

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 65 by 35 cm. Perimeter?

$$65 + 35 + 65 + 35 = \underline{200} \text{ cm}$$

2

Rectangle 84 by 70 cm. Perimeter?

$$84 + 70 + 84 + 70 = \underline{308} \text{ cm}$$

3

Rectangle 49 by 41 cm. Perimeter?

$$49 + 41 + 49 + 41 = \underline{180} \text{ cm}$$

4

Rectangle 36 by 34 cm. Perimeter?

$$36 + 34 + 36 + 34 = \underline{140} \text{ cm}$$

5

Rectangle 83 by 69 cm. Perimeter?

$$83 + 69 + 83 + 69 = \underline{304} \text{ cm}$$

6

Rectangle 57 by 48 cm. Perimeter?

$$57 + 48 + 57 + 48 = \underline{210} \text{ cm}$$

TEACHER NOTES Answer key & guidance

Answers: perimeters and side differences
Common error: Adding only two sides for perimeter

Strategy: Perimeter = sum of sides; compare with subtraction
Prompt: "How many sides must you add?"

I used: addition (perimeter) subtraction (compare) counting (sides)