

GEOMETRY & REASONING

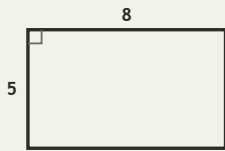
Spatial Lab • Sides, Perimeter, and Difference

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):

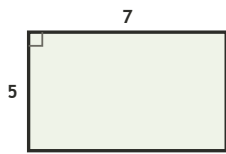
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

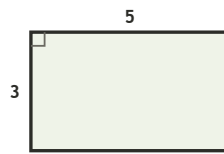
COMPARE SIDES How much longer is the long side, in cm?

1



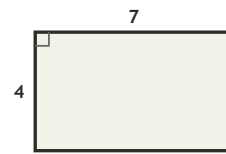
$$7 - 5 = \square \text{ cm longer}$$

2



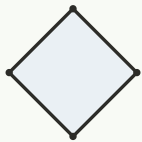
$$5 - 3 = \square \text{ cm longer}$$

3



$$7 - 4 = \square \text{ cm longer}$$

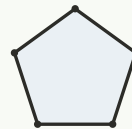
COUNT THE SIDES Write how many sides each shape has.



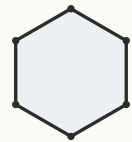
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 12 by 5 cm. Perimeter?

$$12 + 5 + 12 + 5 = \square \text{ cm}$$

2

Rectangle 6 by 3 cm. Perimeter?

$$6 + 3 + 6 + 3 = \square \text{ cm}$$

3

Rectangle 6 by 5 cm. Perimeter?

$$6 + 5 + 6 + 5 = \square \text{ cm}$$

4

Rectangle 8 by 3 cm. Perimeter?

$$8 + 3 + 8 + 3 = \square \text{ cm}$$

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



TEACHER EDITION

GEOMETRY & REASONING

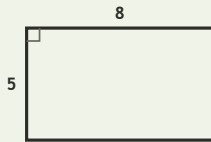
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EXAMPLE



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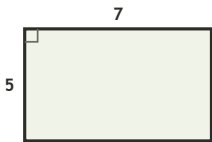
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side - short side:

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

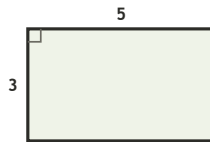
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1



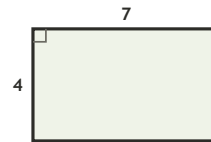
$$7 - 5 = \underline{2} \text{ cm longer}$$

2



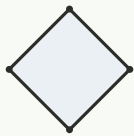
$$5 - 3 = \underline{2} \text{ cm longer}$$

3



$$7 - 4 = \underline{3} \text{ cm longer}$$

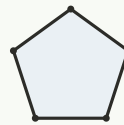
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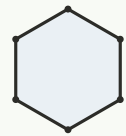
sides: 4



sides: 3



sides: 5



sides: 6

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 12 by 5 cm. Perimeter?

$$12 + 5 + 12 + 5 = \underline{34} \text{ cm}$$

2

Rectangle 6 by 3 cm. Perimeter?

$$6 + 3 + 6 + 3 = \underline{18} \text{ cm}$$

3

Rectangle 6 by 5 cm. Perimeter?

$$6 + 5 + 6 + 5 = \underline{22} \text{ cm}$$

4

Rectangle 8 by 3 cm. Perimeter?

$$8 + 3 + 8 + 3 = \underline{22} \text{ cm}$$

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)

