

GEOMETRY & REASONING

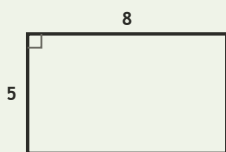
Spatial Lab • Sides, Perimeter, and Difference

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):

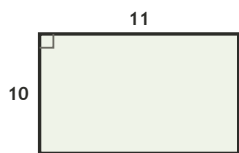
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

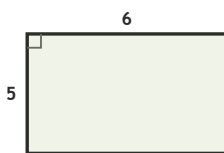
COMPARE SIDES How much longer is the long side, in cm?

1



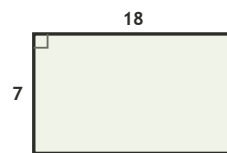
$$11 - 10 = \boxed{} \text{ cm longer}$$

2



$$6 - 5 = \boxed{} \text{ cm longer}$$

3

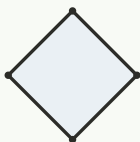


$$18 - 7 = \boxed{} \text{ cm longer}$$

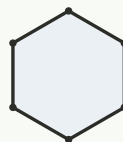
COUNT THE SIDES Write how many sides each shape has.



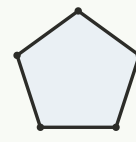
sides: ____



sides: ____



sides: ____



sides: ____

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 13 by 11 cm. Perimeter?

$$13 + 11 + 13 + 11 = \boxed{} \text{ cm}$$

2

Rectangle 19 by 10 cm. Perimeter?

$$19 + 10 + 19 + 10 = \boxed{} \text{ cm}$$

3

Rectangle 6 by 4 cm. Perimeter?

$$6 + 4 + 6 + 4 = \boxed{} \text{ cm}$$

4

Rectangle 8 by 7 cm. Perimeter?

$$8 + 7 + 8 + 7 = \boxed{} \text{ cm}$$

5

Rectangle 18 by 9 cm. Perimeter?

$$18 + 9 + 18 + 9 = \boxed{} \text{ cm}$$

6

Rectangle 19 by 18 cm. Perimeter?

$$19 + 18 + 19 + 18 = \boxed{} \text{ cm}$$

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

TEACHER EDITION

GEOMETRY & REASONING

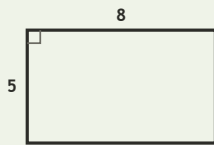
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Objective: Reason about shapes: perimeter, and how much longer one side is.

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

EXAMPLE



Perimeter (all sides in cm):

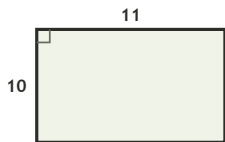
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side - short side:

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

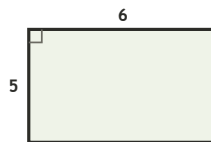
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1



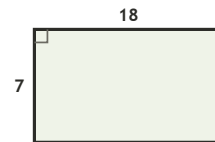
$$11 - 10 = \underline{1} \text{ cm longer}$$

2



$$6 - 5 = \underline{1} \text{ cm longer}$$

3

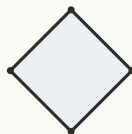


$$18 - 7 = \underline{11} \text{ cm longer}$$

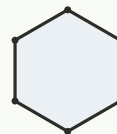
COUNT THE SIDES Write how many sides each shape has.



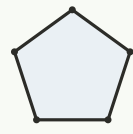
sides: 3



sides: 4



sides: 6



sides: 5

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 13 by 11 cm. Perimeter?

$$13 + 11 + 13 + 11 = \underline{48} \text{ cm}$$

2

Rectangle 19 by 10 cm. Perimeter?

$$19 + 10 + 19 + 10 = \underline{58} \text{ cm}$$

3

Rectangle 6 by 4 cm. Perimeter?

$$6 + 4 + 6 + 4 = \underline{20} \text{ cm}$$

4

Rectangle 8 by 7 cm. Perimeter?

$$8 + 7 + 8 + 7 = \underline{30} \text{ cm}$$

5

Rectangle 18 by 9 cm. Perimeter?

$$18 + 9 + 18 + 9 = \underline{54} \text{ cm}$$

6

Rectangle 19 by 18 cm. Perimeter?

$$19 + 18 + 19 + 18 = \underline{74} \text{ cm}$$

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)