

GEOMETRY & REASONING

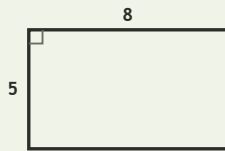
Spatial Lab • Sides, Perimeter, and Difference

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):

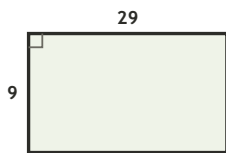
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

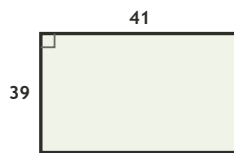
COMPARE SIDES How much longer is the long side, in cm?

1



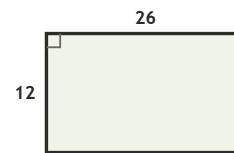
$$29 - 9 = \boxed{} \text{ cm longer}$$

2



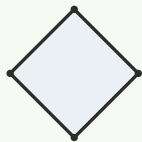
$$41 - 39 = \boxed{} \text{ cm longer}$$

3

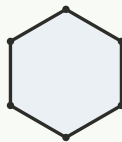


$$26 - 12 = \boxed{} \text{ cm longer}$$

COUNT THE SIDES Write how many sides each shape has.



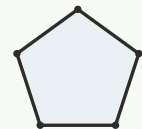
sides: ____



sides: ____



sides: ____



sides: ____

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 40 by 37 cm. Perimeter?

$$40 + 37 + 40 + 37 = \boxed{} \text{ cm}$$

2

Rectangle 50 by 42 cm. Perimeter?

$$50 + 42 + 50 + 42 = \boxed{} \text{ cm}$$

3

Rectangle 66 by 54 cm. Perimeter?

$$66 + 54 + 66 + 54 = \boxed{} \text{ cm}$$

4

Rectangle 80 by 71 cm. Perimeter?

$$80 + 71 + 80 + 71 = \boxed{} \text{ cm}$$

5

Rectangle 70 by 59 cm. Perimeter?

$$70 + 59 + 70 + 59 = \boxed{} \text{ cm}$$

6

Rectangle 67 by 48 cm. Perimeter?

$$67 + 48 + 67 + 48 = \boxed{} \text{ cm}$$

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

TEACHER EDITION

GEOMETRY & REASONING

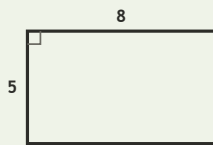
Spatial Lab • Sides, Perimeter, and Difference

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):

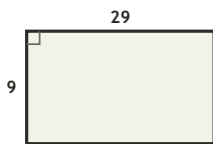
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side - short side:

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

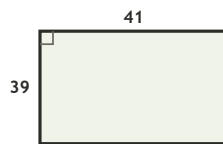
COMPARE SIDES How much longer is the long side, in cm?

1



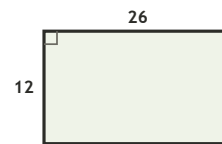
$$29 - 9 = \underline{20} \text{ cm longer}$$

2



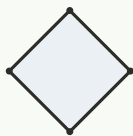
$$41 - 39 = \underline{2} \text{ cm longer}$$

3

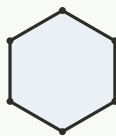


$$26 - 12 = \underline{14} \text{ cm longer}$$

COUNT THE SIDES Write how many sides each shape has.



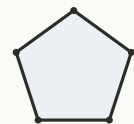
sides: 4



sides: 6



sides: 3



sides: 5

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 40 by 37 cm. Perimeter?

$$40 + 37 + 40 + 37 = \underline{154} \text{ cm}$$

2

Rectangle 50 by 42 cm. Perimeter?

$$50 + 42 + 50 + 42 = \underline{184} \text{ cm}$$

3

Rectangle 66 by 54 cm. Perimeter?

$$66 + 54 + 66 + 54 = \underline{240} \text{ cm}$$

4

Rectangle 80 by 71 cm. Perimeter?

$$80 + 71 + 80 + 71 = \underline{302} \text{ cm}$$

5

Rectangle 70 by 59 cm. Perimeter?

$$70 + 59 + 70 + 59 = \underline{258} \text{ cm}$$

6

Rectangle 67 by 48 cm. Perimeter?

$$67 + 48 + 67 + 48 = \underline{230} \text{ cm}$$

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)