

GEOMETRY & REASONING

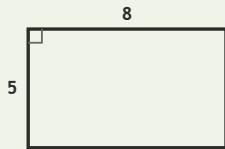
Spatial Lab • Sides, Perimeter, and Difference

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):

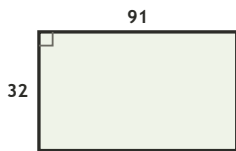
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

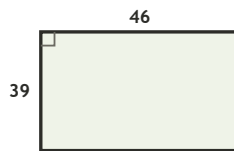
COMPARE SIDES How much longer is the long side, in cm?

1



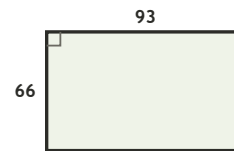
$$91 - 32 = \boxed{} \text{ cm longer}$$

2



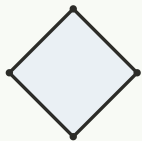
$$46 - 39 = \boxed{} \text{ cm longer}$$

3

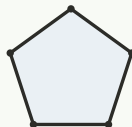


$$93 - 66 = \boxed{} \text{ cm longer}$$

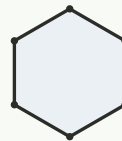
COUNT THE SIDES Write how many sides each shape has.



sides: ____



sides: ____



sides: ____



sides: ____

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 89 by 82 cm. Perimeter?

$$89 + 82 + 89 + 82 = \boxed{} \text{ cm}$$

2

Rectangle 40 by 21 cm. Perimeter?

$$40 + 21 + 40 + 21 = \boxed{} \text{ cm}$$

3

Rectangle 64 by 56 cm. Perimeter?

$$64 + 56 + 64 + 56 = \boxed{} \text{ cm}$$

4

Rectangle 39 by 30 cm. Perimeter?

$$39 + 30 + 39 + 30 = \boxed{} \text{ cm}$$

5

Rectangle 68 by 67 cm. Perimeter?

$$68 + 67 + 68 + 67 = \boxed{} \text{ cm}$$

6

Rectangle 87 by 68 cm. Perimeter?

$$87 + 68 + 87 + 68 = \boxed{} \text{ cm}$$

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

TEACHER EDITION

GEOMETRY & REASONING

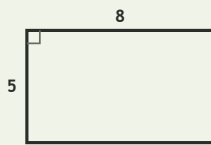
Spatial Lab • Sides, Perimeter, and Difference

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):

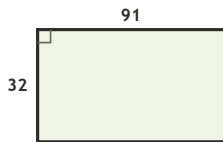
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

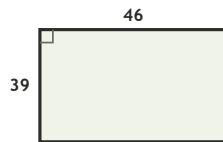
COMPARE SIDES How much longer is the long side, in cm?

1



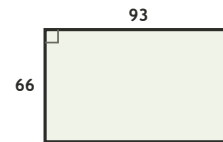
$$91 - 32 = \underline{59} \text{ cm longer}$$

2



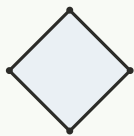
$$46 - 39 = \underline{7} \text{ cm longer}$$

3

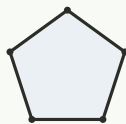


$$93 - 66 = \underline{27} \text{ cm longer}$$

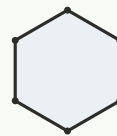
COUNT THE SIDES Write how many sides each shape has.



sides: 4



sides: 5



sides: 6



sides: 3

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 89 by 82 cm. Perimeter?

$$89 + 82 + 89 + 82 = \underline{342} \text{ cm}$$

2

Rectangle 40 by 21 cm. Perimeter?

$$40 + 21 + 40 + 21 = \underline{122} \text{ cm}$$

3

Rectangle 64 by 56 cm. Perimeter?

$$64 + 56 + 64 + 56 = \underline{240} \text{ cm}$$

4

Rectangle 39 by 30 cm. Perimeter?

$$39 + 30 + 39 + 30 = \underline{138} \text{ cm}$$

5

Rectangle 68 by 67 cm. Perimeter?

$$68 + 67 + 68 + 67 = \underline{270} \text{ cm}$$

6

Rectangle 87 by 68 cm. Perimeter?

$$87 + 68 + 87 + 68 = \underline{310} \text{ cm}$$

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)