

GEOMETRY & REASONING

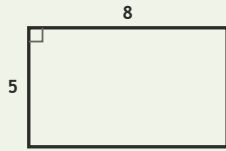
Spatial Lab • Sides, Perimeter, and Difference

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):

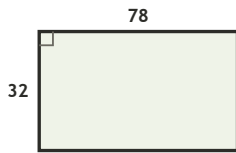
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side – short side:

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

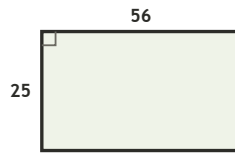
COMPARE SIDES How much longer is the long side, in cm?

1



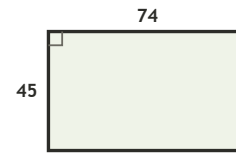
$$78 - 32 = \square \text{ cm longer}$$

2



$$56 - 25 = \square \text{ cm longer}$$

3

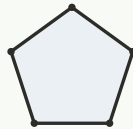


$$74 - 45 = \square \text{ cm longer}$$

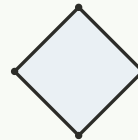
COUNT THE SIDES Write how many sides each shape has.



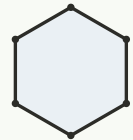
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 32 by 24 cm. Perimeter?

$$32 + 24 + 32 + 24 = \square \text{ cm}$$

2

Rectangle 49 by 27 cm. Perimeter?

$$49 + 27 + 49 + 27 = \square \text{ cm}$$

3

Rectangle 28 by 16 cm. Perimeter?

$$28 + 16 + 28 + 16 = \square \text{ cm}$$

4

Rectangle 70 by 33 cm. Perimeter?

$$70 + 33 + 70 + 33 = \square \text{ cm}$$

5

Rectangle 29 by 10 cm. Perimeter?

$$29 + 10 + 29 + 10 = \square \text{ cm}$$

6

Rectangle 74 by 68 cm. Perimeter?

$$74 + 68 + 74 + 68 = \square \text{ cm}$$

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

TEACHER EDITION

GEOMETRY & REASONING

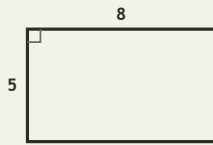
Spatial Lab • Sides, Perimeter, and Difference

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

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EXAMPLE



Perimeter (all sides in cm):

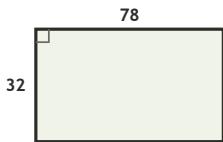
$$8 + 5 + 8 + 5 = \underline{26} \text{ cm}$$

Long side - short side:

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

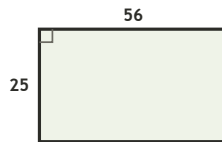
COMPARE SIDES How much longer is the long side, in cm?

1



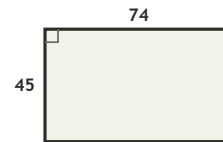
$$78 - 32 = \underline{46} \text{ cm longer}$$

2



$$56 - 25 = \underline{31} \text{ cm longer}$$

3

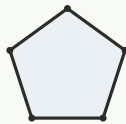


$$74 - 45 = \underline{29} \text{ cm longer}$$

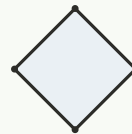
COUNT THE SIDES Write how many sides each shape has.



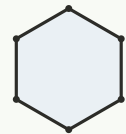
sides: 3



sides: 5



sides: 4



sides: 6

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 32 by 24 cm. Perimeter?

$$32 + 24 + 32 + 24 = \underline{112} \text{ cm}$$

2

Rectangle 49 by 27 cm. Perimeter?

$$49 + 27 + 49 + 27 = \underline{152} \text{ cm}$$

3

Rectangle 28 by 16 cm. Perimeter?

$$28 + 16 + 28 + 16 = \underline{88} \text{ cm}$$

4

Rectangle 70 by 33 cm. Perimeter?

$$70 + 33 + 70 + 33 = \underline{206} \text{ cm}$$

5

Rectangle 29 by 10 cm. Perimeter?

$$29 + 10 + 29 + 10 = \underline{78} \text{ cm}$$

6

Rectangle 74 by 68 cm. Perimeter?

$$74 + 68 + 74 + 68 = \underline{284} \text{ cm}$$

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)