FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

GEOMETRY & REASONING

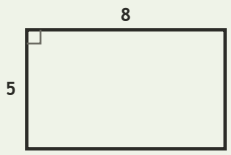
Spatial Lab • Sides, Perimeter, and Difference

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):

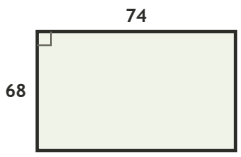
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

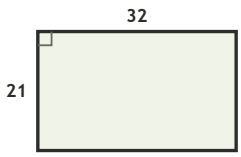
COMPARE SIDES How much longer is the long side, in cm?

1



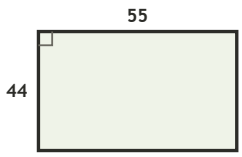
74 − 68 = ☐ cm longer

2



32 − 21 = ☐ cm longer

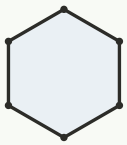
3



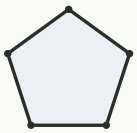
55 − 44 = ☐ cm longer

COUNT THE SIDES Write how many sides each shape has.

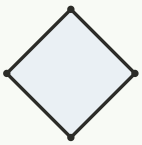
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 26 by 9 cm. Perimeter?

26 + 9 + 26 + 9 = ☐ cm

2

Rectangle 37 by 30 cm. Perimeter?

37 + 30 + 37 + 30 = ☐ cm

3

Rectangle 53 by 30 cm. Perimeter?

53 + 30 + 53 + 30 = ☐ cm

4

Rectangle 79 by 42 cm. Perimeter?

79 + 42 + 79 + 42 = ☐ cm

5

Rectangle 71 by 54 cm. Perimeter?

71 + 54 + 71 + 54 = ☐ cm

6

Rectangle 55 by 53 cm. Perimeter?

55 + 53 + 55 + 53 = ☐ cm

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

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TEACHER EDITION

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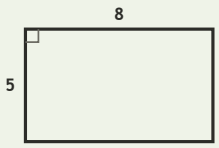

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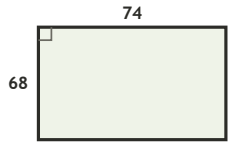
Long side − short side:

8 − 5 = 3 cm

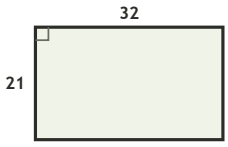
COMPARE SIDES How much longer is the long side, in cm?

1



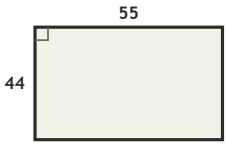
74 − 68 = 6 cm longer

2



32 − 21 = 11 cm longer

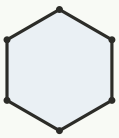
3



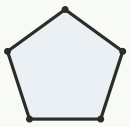
55 − 44 = 11 cm longer

COUNT THE SIDES Write how many sides each shape has.

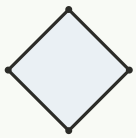
sides: 3



sides: 6



sides: 5



sides: 4

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 26 by 9 cm. Perimeter?

26 + 9 + 26 + 9 = 70 cm

2

Rectangle 37 by 30 cm. Perimeter?

37 + 30 + 37 + 30 = 134 cm

3

Rectangle 53 by 30 cm. Perimeter?

53 + 30 + 53 + 30 = 166 cm

4

Rectangle 79 by 42 cm. Perimeter?

79 + 42 + 79 + 42 = 242 cm

5

Rectangle 71 by 54 cm. Perimeter?

71 + 54 + 71 + 54 = 250 cm

6

Rectangle 55 by 53 cm. Perimeter?

55 + 53 + 55 + 53 = 216 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)