FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

GEOMETRY & REASONING

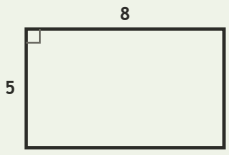
Spatial Lab • Sides, Perimeter, and Difference

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):

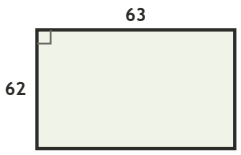
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

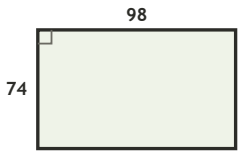
COMPARE SIDES How much longer is the long side, in cm?

1



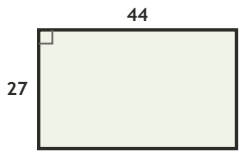
63 − 62 = ☐ cm longer

2



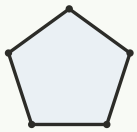
98 − 74 = ☐ cm longer

3

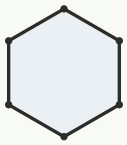


44 − 27 = ☐ cm longer

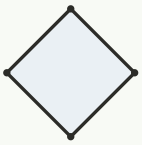
COUNT THE SIDES Write how many sides each shape has.



sides: ___



sides: ___



sides: ___

sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 42 by 32 cm. Perimeter?

42 + 32 + 42 + 32 = ☐ cm

2

Rectangle 81 by 65 cm. Perimeter?

81 + 65 + 81 + 65 = ☐ cm

3

Rectangle 58 by 36 cm. Perimeter?

58 + 36 + 58 + 36 = ☐ cm

4

Rectangle 60 by 51 cm. Perimeter?

60 + 51 + 60 + 51 = ☐ cm

5

Rectangle 40 by 15 cm. Perimeter?

40 + 15 + 40 + 15 = ☐ cm

6

Rectangle 69 by 67 cm. Perimeter?

69 + 67 + 69 + 67 = ☐ cm

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

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TEACHER EDITION

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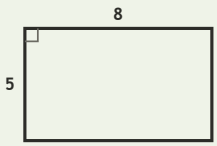


Perimeter (all sides in cm):

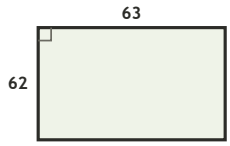
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

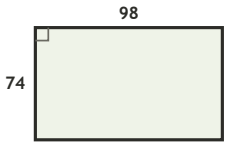
COMPARE SIDES How much longer is the long side, in cm?

1



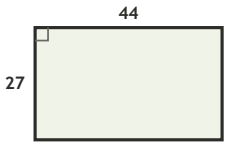
63 − 62 = 1 cm longer

2



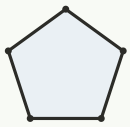
98 − 74 = 24 cm longer

3

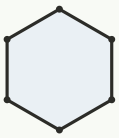


44 − 27 = 17 cm longer

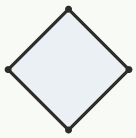
COUNT THE SIDES Write how many sides each shape has.



sides: 5



sides: 6



sides: 4

sides: 3

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 42 by 32 cm. Perimeter?

42 + 32 + 42 + 32 = 148 cm

2

Rectangle 81 by 65 cm. Perimeter?

81 + 65 + 81 + 65 = 292 cm

3

Rectangle 58 by 36 cm. Perimeter?

58 + 36 + 58 + 36 = 188 cm

4

Rectangle 60 by 51 cm. Perimeter?

60 + 51 + 60 + 51 = 222 cm

5

Rectangle 40 by 15 cm. Perimeter?

40 + 15 + 40 + 15 = 110 cm

6

Rectangle 69 by 67 cm. Perimeter?

69 + 67 + 69 + 67 = 272 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)