FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

GEOMETRY & REASONING

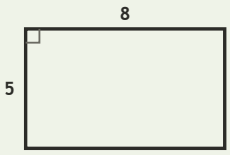
Spatial Lab • Sides, Perimeter, and Difference

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):

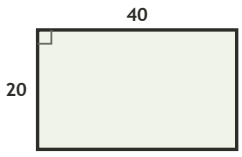
8 + 5 + 8 + 5 = 26 cm

Long side – short side:

8 – 5 = 3 cm

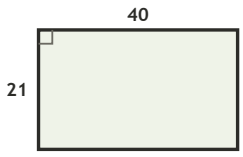
COMPARE SIDES How much longer is the long side, in cm?

1



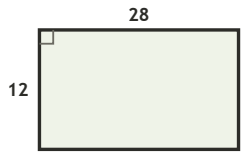
40 – 20 = ☐ cm longer

2



40 – 21 = ☐ cm longer

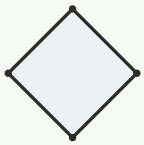
3



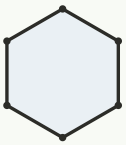
28 – 12 = ☐ cm longer

COUNT THE SIDES Write how many sides each shape has.

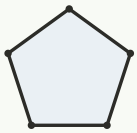
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 37 by 31 cm. Perimeter?

37 + 31 + 37 + 31 = ☐ cm

2

Rectangle 40 by 22 cm. Perimeter?

40 + 22 + 40 + 22 = ☐ cm

3

Rectangle 39 by 17 cm. Perimeter?

39 + 17 + 39 + 17 = ☐ cm

4

Rectangle 14 by 6 cm. Perimeter?

14 + 6 + 14 + 6 = ☐ cm

5

Rectangle 34 by 13 cm. Perimeter?

34 + 13 + 34 + 13 = ☐ cm

6

Rectangle 39 by 32 cm. Perimeter?

39 + 32 + 39 + 32 = ☐ cm

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

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TEACHER EDITION

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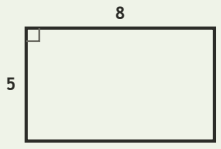
EXAMPLE



Perimeter (all sides in cm):

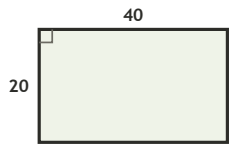
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

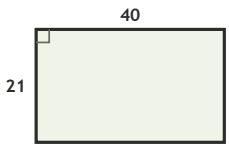
COMPARE SIDES How much longer is the long side, in cm?

1



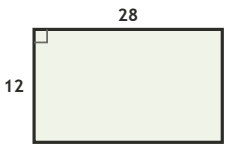
40 − 20 = 20 cm longer

2



40 − 21 = 19 cm longer

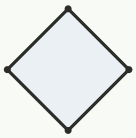
3



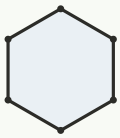
28 − 12 = 16 cm longer

COUNT THE SIDES Write how many sides each shape has.

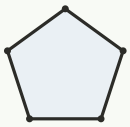
sides: 3



sides: 4



sides: 6



sides: 5

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 37 by 31 cm. Perimeter?

37 + 31 + 37 + 31 = 136 cm

2

Rectangle 40 by 22 cm. Perimeter?

40 + 22 + 40 + 22 = 124 cm

3

Rectangle 39 by 17 cm. Perimeter?

39 + 17 + 39 + 17 = 112 cm

4

Rectangle 14 by 6 cm. Perimeter?

14 + 6 + 14 + 6 = 40 cm

5

Rectangle 34 by 13 cm. Perimeter?

34 + 13 + 34 + 13 = 94 cm

6

Rectangle 39 by 32 cm. Perimeter?

39 + 32 + 39 + 32 = 142 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)