FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

GEOMETRY & REASONING

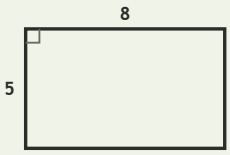
Spatial Lab • Sides, Perimeter, and Difference

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):

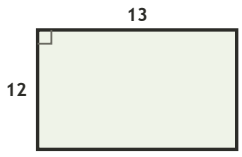
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

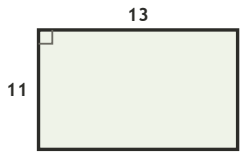
COMPARE SIDES How much longer is the long side, in cm?

1



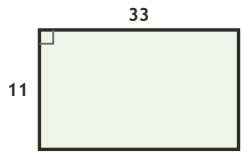
13 − 12 = ☐ cm longer

2



13 − 11 = ☐ cm longer

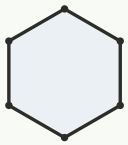
3



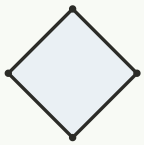
33 − 11 = ☐ cm longer

COUNT THE SIDES Write how many sides each shape has.

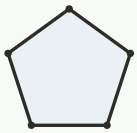
sides: ___



sides: ___



sides: ___



sides: ___

FIND THE PERIMETER Add all four sides, in cm.

1 Rectangle 18 by 7 cm. Perimeter?

18 + 7 + 18 + 7 = ☐ cm

2 Rectangle 19 by 12 cm. Perimeter?

19 + 12 + 19 + 12 = ☐ cm

3 Rectangle 30 by 26 cm. Perimeter?

30 + 26 + 30 + 26 = ☐ cm

4 Rectangle 36 by 29 cm. Perimeter?

36 + 29 + 36 + 29 = ☐ cm

5 Rectangle 36 by 14 cm. Perimeter?

36 + 14 + 36 + 14 = ☐ cm

6 Rectangle 16 by 15 cm. Perimeter?

16 + 15 + 16 + 15 = ☐ cm

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

FAITH THINKERS
Traditional Arithmetic & Logic

Name: _____

TEACHER EDITION

GEOMETRY & REASONING

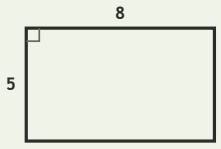
Spatial Lab • Sides, Perimeter, and Difference

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):

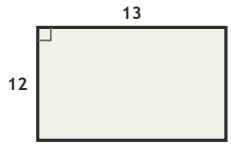
8 + 5 + 8 + 5 = 26 cm

Long side − short side:

8 − 5 = 3 cm

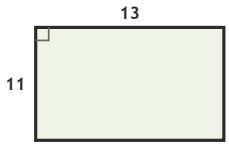
COMPARE SIDES How much longer is the long side, in cm?

1



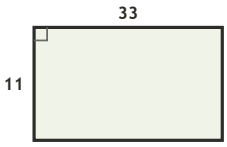
13 − 12 = 1 cm longer

2



13 − 11 = 2 cm longer

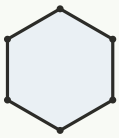
3



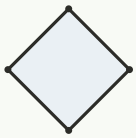
33 − 11 = 22 cm longer

COUNT THE SIDES Write how many sides each shape has.

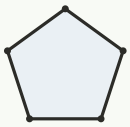
sides: 3



sides: 6



sides: 4



sides: 5

FIND THE PERIMETER Add all four sides, in cm.

1

Rectangle 18 by 7 cm. Perimeter?

18 + 7 + 18 + 7 = 50 cm

2

Rectangle 19 by 12 cm. Perimeter?

19 + 12 + 19 + 12 = 62 cm

3

Rectangle 30 by 26 cm. Perimeter?

30 + 26 + 30 + 26 = 112 cm

4

Rectangle 36 by 29 cm. Perimeter?

36 + 29 + 36 + 29 = 130 cm

5

Rectangle 36 by 14 cm. Perimeter?

36 + 14 + 36 + 14 = 100 cm

6

Rectangle 16 by 15 cm. Perimeter?

16 + 15 + 16 + 15 = 62 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)