## Year 3: Week 6, Day 4 Perimeter (1)

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.


OR start by carefully reading through the Learning Reminders.

2. Tackle the questions on the Practice Sheet. There might be a choice of either Mild (easier) or Hot (harder)!
Check the answers.

3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the Investigation...

## Learning Reminders


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## Learning Reminders

Understand, measure and calculate perimeters.

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## Practice Sheet Mild

Shape practice
Calculate the perimeters of these regular shapes from the length of one side.
Complete the table.

| Regular Shape | Length of one side | Number of sides | Perimeter |
| :---: | :---: | :---: | :---: |
| Equilateral triangle | 15 cm |  |  |
| Pentagon | 12 cm |  |  |
| Square | 16 cm |  |  |

## Challenge

What would the lengths of the sides of the following shapes be if the perimeter is 30 cm :
a. equilateral triangle
b. square
c. pentagon
d. hexagon
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## Practice Sheet Hot <br> Shape practice

Calculate the perimeters of these regular shapes from the length of one side.
Complete the table.

| Regular Shape | Length of one side | Number of sides | Perimeter |
| :--- | :--- | :--- | :--- |
| Octagon | 5 cm |  |  |
| Decagon | 7 cm |  |  |
| Heptagon | $\mathbf{3 c m}$ |  |  |

## Challenge

Can you suggest 5 different possible side lengths for an irregular pentagon with a perimeter of 40 cm ?
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## Practice Sheet Answers

## Shape practice Mild and Hot

| Regular Shape | Length of one side | Number of sides | Perimeter |
| :---: | :---: | :---: | :---: |
| Equilateral triangle | 15 cm | 3 | 45 cm |
| Octagon | 5 cm | 8 | 40 cm |
| Pentagon | 12 cm | 5 | 60 cm |
| Decagon | 7 cm | 10 | 70 cm |
| Square | 16 cm | 7 | 64 cm |
| Heptagon | 3 cm | 6 | 21 cm |
| Hexagon | $\mathbf{1 \frac { 1 } { 2 }} \mathbf{c m}$ | 9 cm | 36 cm |
| Nonagon | $\mathbf{4 c m}$ |  |  |

## Challenge

What would the lengths of the sides of the following shapes be if the perimeter is 30 cm ?
a. 10 cm
b. $7 \frac{1}{2} \mathrm{~cm}$
c. 6 cm
d. 5 cm

Can you suggest 5 different possible side lengths for an irregular pentagon with a perimeter of 40 cm ?

Example answer: $9 \mathrm{~cm}, 6 \mathrm{~cm}, 8 \mathrm{~cm}, 7 \mathrm{~cm}, 10 \mathrm{~cm}$.
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