Challenge 1
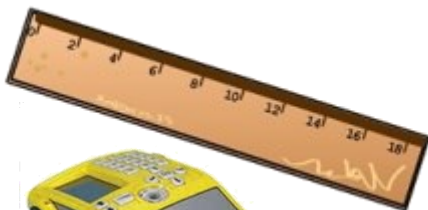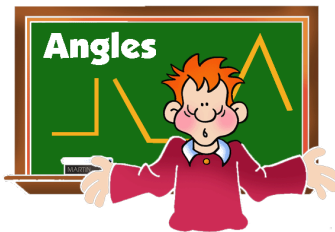
Area & Perimeter Problem Solving Tasks

1. Programme the Pro-Bot to draw a square with an area of 64cm^2.

2. Find it's perimeter.

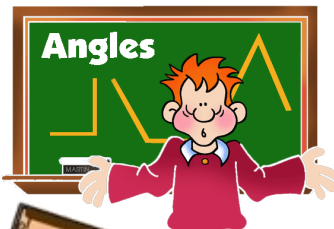**Pro-Bot**

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Challenge 2

Area & Perimeter Problem Solving Tasks

1. Programme the Pro-Bot to draw a square with a perimeter of 40cm.

2. Find it's area.

Pro-Bot
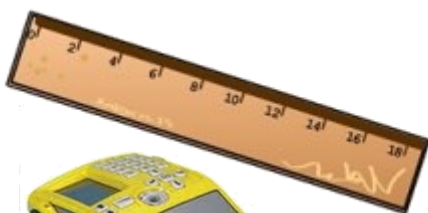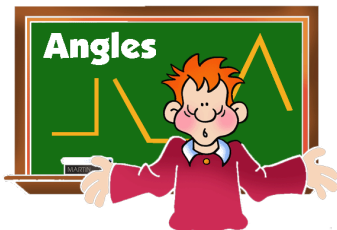
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1. Programme the Pro-Bot to draw a rectangle with an area of 70 cm^2.

2. Find its perimeter

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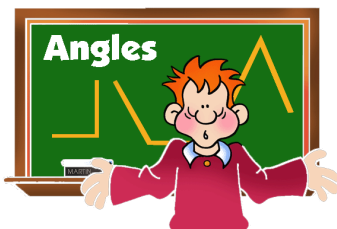
1. Programme the Pro-Bot to draw a rectangle with a perimeter of 32 cm. One of the sides is 9cm.

2. Find its area.

Pro-Bot®

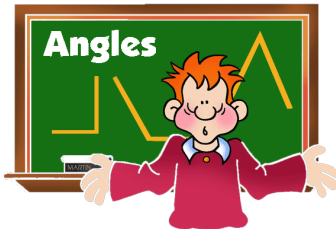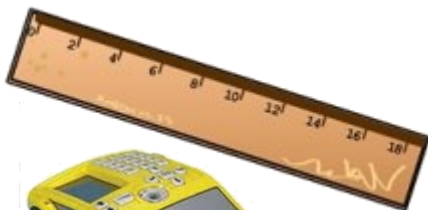**Kevin Grima** Digital Literacy Support Teacher

The area of a 4 sided polygon is 49cm.

Can you write a program for the Pro-Bot to draw this polygon?

What kind of a polygon is it?

Pro-Bot®

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The perimeter of an irregular, 4 sided polygon is 32 cm.

The opposites sides are equal to each other and one of them is 5cm long.

Can you write a program for Pro-Bot to draw this polygon?

What kind of polygon is it?

Pro-Bot®

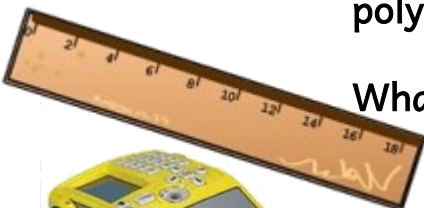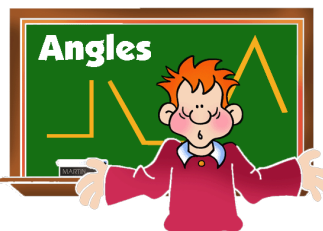**Kevin Grima** Digital Literacy Support Teacher

The area of a regular, 4 sided polygon is 49 cm^2.

Can you write a program for Pro-Bot to draw this polygon?

What kind of a polygon is it?

Pro-Bot

The area of a 4 sided polygon is 24 cm^2.

The opposite sides are equal in length and the angles are all 90° each. The longer side measures 2 cm more than the shorter side. The sum of the lengths of the long side and the shorter side is 10 cm.

Can you write a program for Pro-Bot to draw this polygon?

What kind of a polygon is it? Pro-Bot
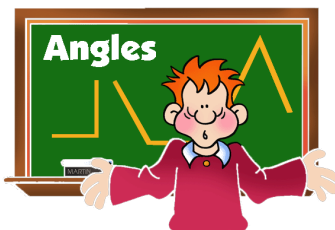
Angles

1. **Programme the ProBot to draw a rectangle that has a perimeter of 18 cm and an area of 18 cm^2.**
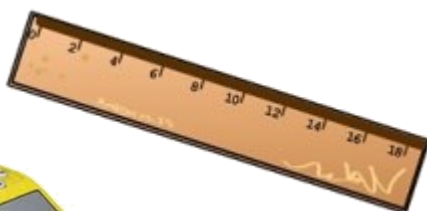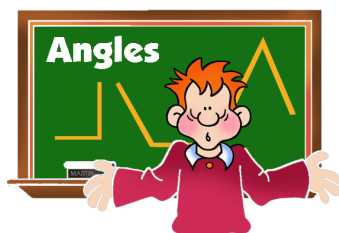
Pro-Bot®

The perimeter of an irregular, 4 sided polygon is 54 cm.

Angles

Can you write **2 programmes** for Pro-Bot to draw 2 different polygons with a perimeter of 54 cm?

Find their Area.

Pro-Bot®

Area & Perimeter

ANSWER SHEET

1

Length = _____ cm

Breadth = _____ cm

Perimeter = _____ cm

2

Length = _____ cm

Breadth = _____ cm

Area = _____ cm^2

3

Length = _____ cm

Breadth = _____ cm

Perimeter = _____ cm

4

Length of other side _____ cm

Area = _____ cm^2

5

Can this be a square?

◯ yes ◯ no

Explain why

_____
_____

Length = _____ cm
Breadth = _____ cm

6

Length of other side _____ cm

What kind of polygon is it?

_____

7

Length = _____ cm

Breadth = _____ cm

What kind of polygon is it?

_____

8

Length = _____ cm

Breadth = _____ cm

What kind of polygon is it?

_____

9

Length = _____ cm

Breadth = _____ cm

10

Polygon 1	Polygon 2
Length = _____ cm	**Length** = _____ cm
Breadth = _____ cm	**Breadth** = _____ cm
Area = _____ cm^2	**Area** = _____ cm^2

Kevin Grima
eLearning Support Teacher

Area & Perimeter

1

Length = 8 cm

Breadth = 8 cm

Perimeter = 32 cm

2

Length = 10 cm

Breadth = 10 cm

Area = 100 cm^2

3

Length = 10/35 cm

Breadth = 7/2 cm

Perimeter = 34/74 cm

4

Length of other side
7 cm

Area = 63 cm^2

5

Can this be a square?

X yes   no

Explain why
Because it can be a square

Length = 7 cm
Breadth = 7 cm

6

Length of other side
11 cm

What kind of polygon is it?

rectangle

7

Length = 9 cm

Breadth = 9 cm

What kind of polygon is it?

square

8

Length = 6 cm

Breadth = 4 cm

What kind of polygon is it?

rectangle

9

Length = 6 cm

Breadth = 3 cm

10

Polygon 1	Polygon 2
Length = 10 cm	**Length** = 15 cm
Breadth = 17 cm	**Breadth** = 12 cm
Area = 170 cm^2	**Area** = 180 cm^2

Accept any other possible answers.

Kevin Grima
eLearning Support Teacher