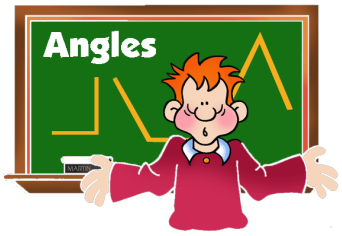
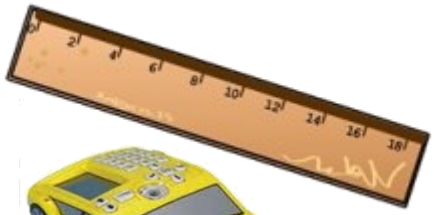
Area & Perimeter Problem Solving Tasks



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



2. Find it's perimeter.

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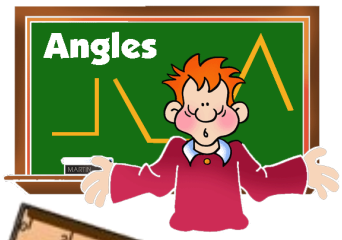
Area & Perimeter Problem Solving Tasks

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



2. Find it's area.

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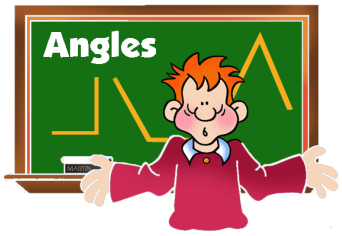
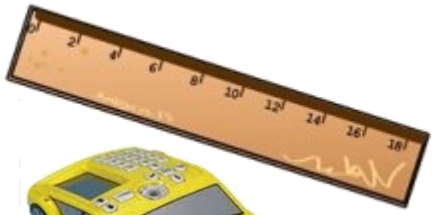
Challenge 3

Area & Perimeter Problem Solving Tasks



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



2. Find its perimeter

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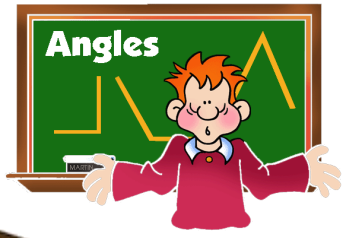
Challenge 4

Area & Perimeter Problem Solving Tasks



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.

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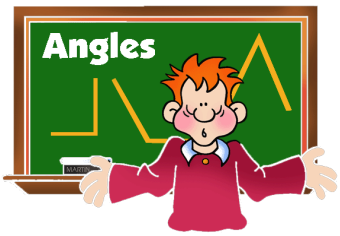
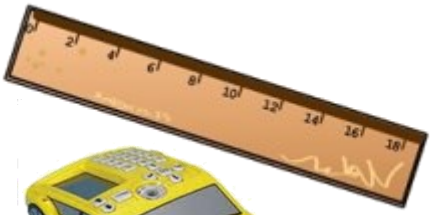
Perimeter Problem Solving Tasks



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?

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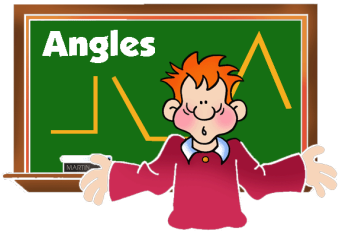
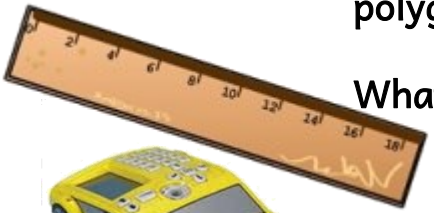
Perimeter Problem Solving Tasks



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?

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Challenge 7

Area Problem Solving Tasks

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?

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Challenge 8

Area Problem Solving Tasks

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?

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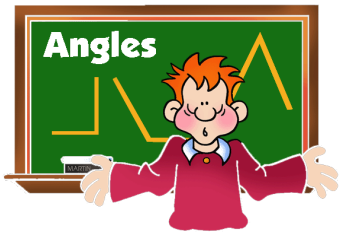
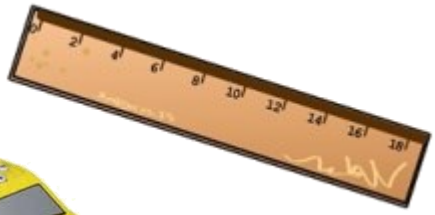
Area & Perimeter Problem Solving Tasks



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



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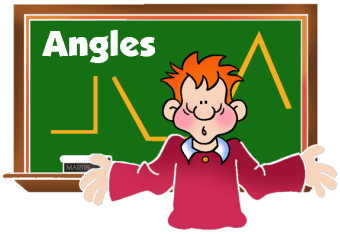
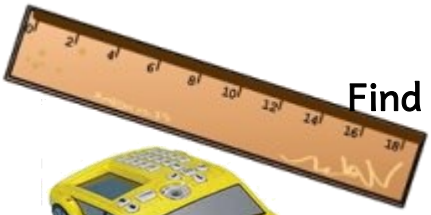
Perimeter Problem Solving Tasks

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



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



Find their Area.

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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

Length = _____ cm

Breadth = _____ cm

Area = _____ cm^2

Polygon 2

Length = _____ cm

Breadth = _____ cm

Area = _____ cm^2

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Area & Perimeter

ANSWER SHEET

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

Length = 10 cm

Breadth = 17 cm

Area = 170 cm^2

Polygon 2

Length = 15 cm

Breadth = 12 cm

Area = 180 cm^2

Accept any other possible answers.

Kevin Grima
eLearning Support Teacher