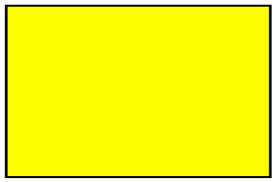
This week we are revising perimeter, area and volume

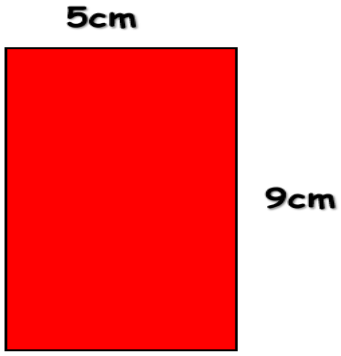
LO: To calculate area and perimeter (Bronze).

Calculate the perimeter and area for each shape below.

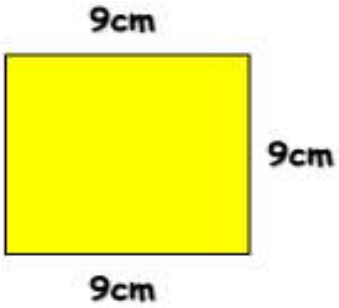
1)



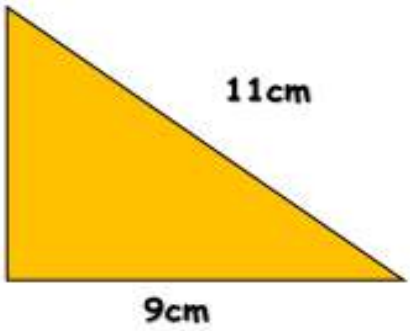
2)



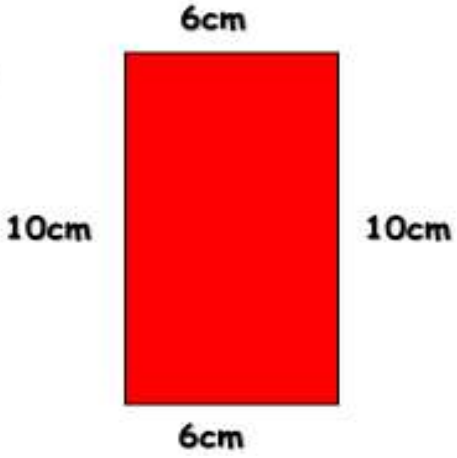
3)



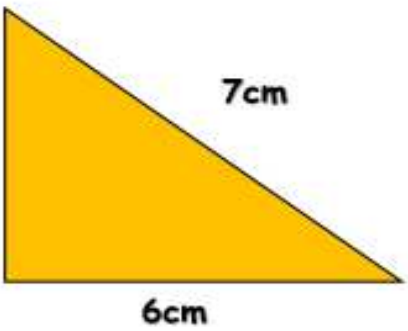
4)



5)

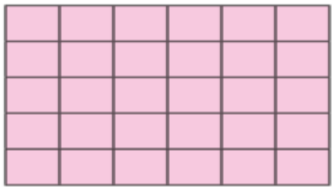


6)



7) Work out the areas and perimeters of the shapes.

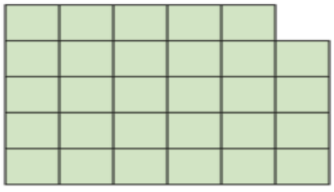
Shape A



area = ☐ cm^2

perimeter = ☐ cm

Shape B



area = ☐ cm^2

perimeter = ☐ cm

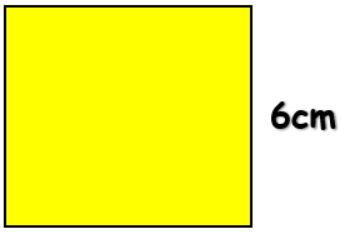
What do you notice?

This week we are revising perimeter, area and volume

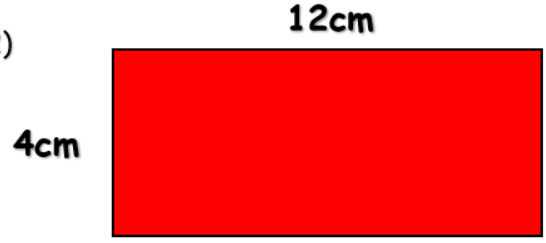
LO: To calculate area and perimeter (Silver).

Calculate the area and perimeter of the following shapes

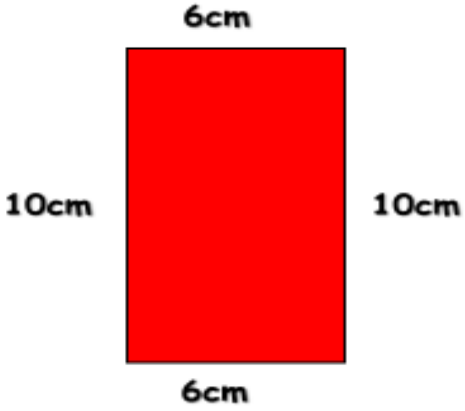
1)



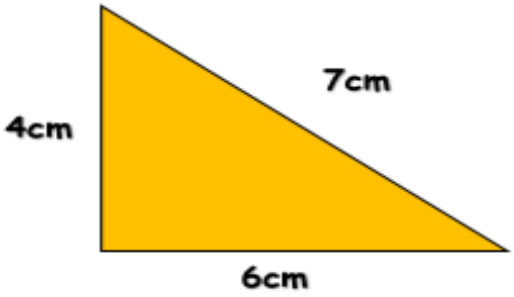
2)



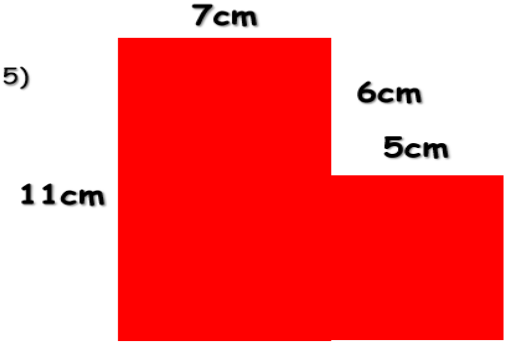
3)



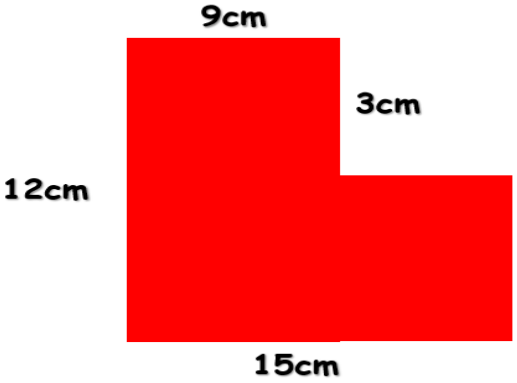
4)



5)



6)



7) The perimeter of a rectangle is 42cm. What could the width and height be? How many different combinations can you find?

8) Andrew says "The area of squares and square numbers are related."

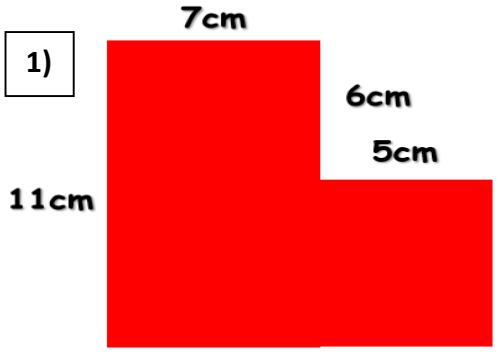
Do you agree? Explain why.

This week we are revising perimeter, area and volume

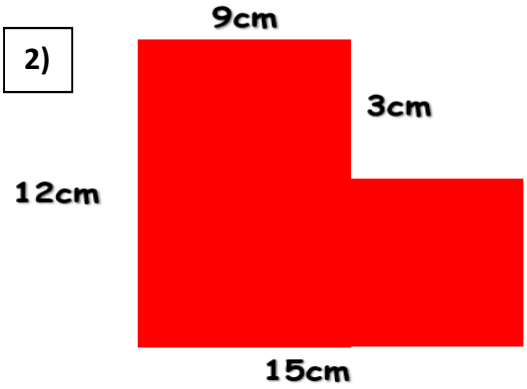
LO: To calculate area and perimeter (Gold).

Calculate the area and perimeter of the following shapes

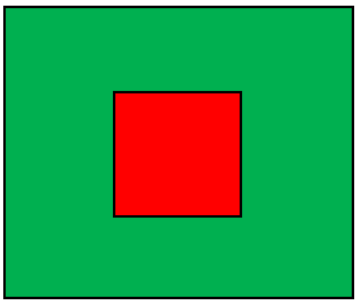
1)



2)



3) Look at the squares below:



The perimeter of the inner square is 24cm. The outer squares perimeter is four times the size of the inner square. What is the length of one side of the outer square? How do you know? What do you notice?

4) Mr Jones has 50 m of fencing.

He wants to make a rectilinear enclosure using all the fencing.

a) Draw an example of a shape he could make. Give units on your diagram.

b) What is the greatest possible area of the enclosure?

c) What is the smallest possible area of the enclosure?

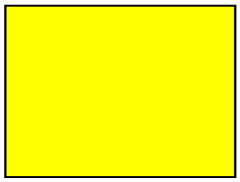
5) The perimeter of a rectangle is 42cm. What could the width and height be? How many different combinations can you find?

This week we are revising perimeter, area and volume

LO: To calculate area and perimeter (Bronze)-answers

Calculate the perimeter and area for each shape below.

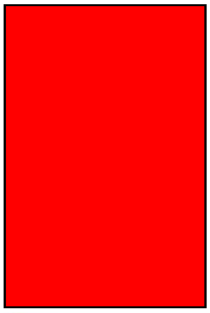
1)



P = 40 cm

A = 100 cm²

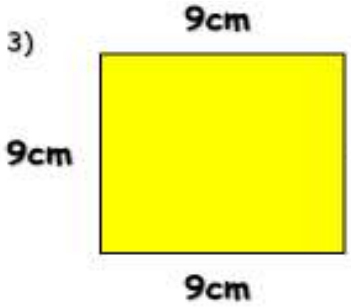
2)



P = 28 cm

A = 45 cm²

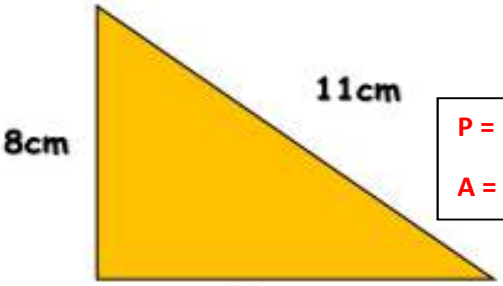
3)



P = 36 cm

A = 81 cm²

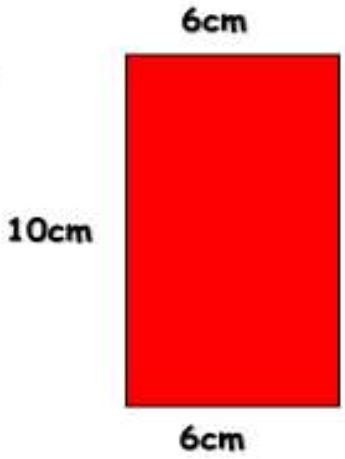
4)



P = 28 cm

A = 36 cm²

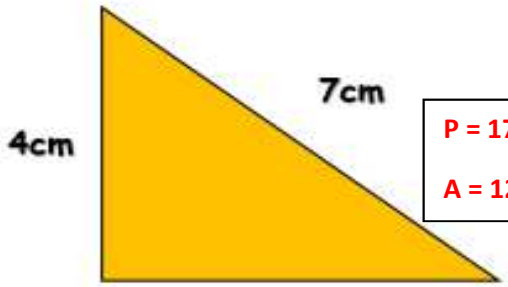
5)



P = 32 cm

A = 60 cm²

6)

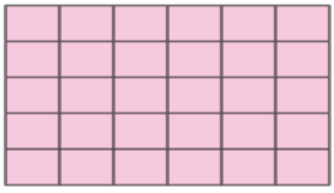


P = 17 cm

A = 12 cm²

7) Work out the areas and perimeters of the shapes.

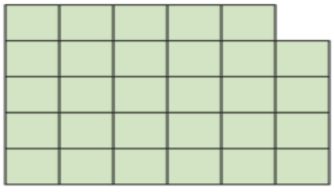
Shape A



area = 30 cm²

perimeter = 22 cm

Shape B



area = 29 cm²

perimeter = 22 cm

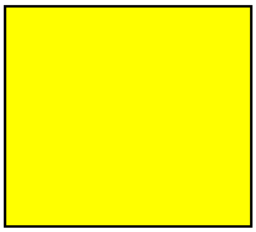
What do you notice?

This week we are revising perimeter, area and volume

LO: To calculate area and perimeter (Silver)=answers

Calculate the area and perimeter of the following shapes

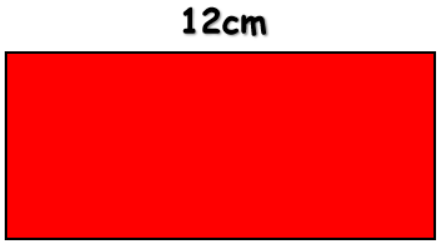
1)



P = 24 cm

A = 36 cm²

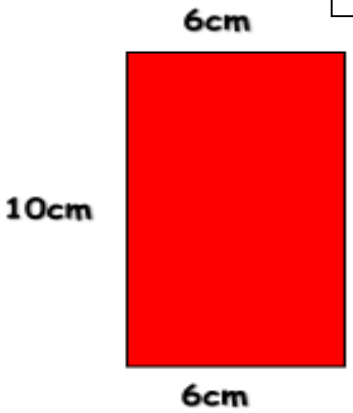
2)



P = 32 cm

A = 48 cm²

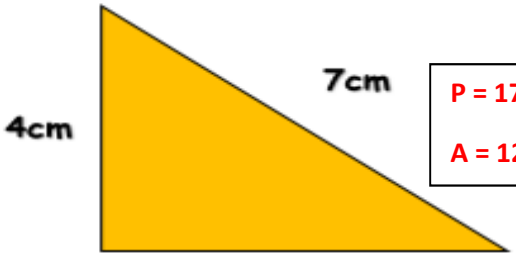
3)



P = 32 cm

A = 60 cm²

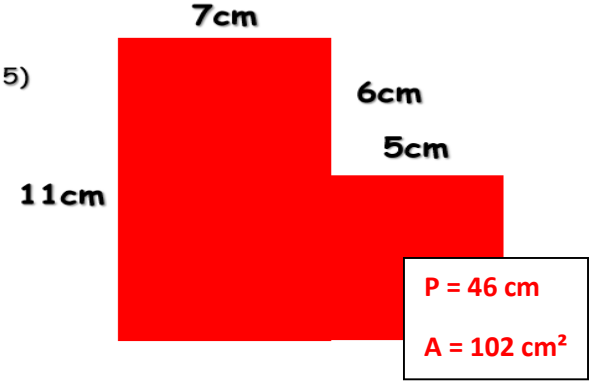
4)



P = 17 cm

A = 12 cm²

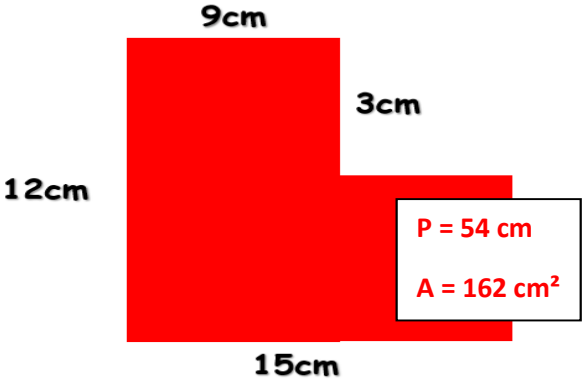
5)



P = 46 cm

A = 102 cm²

6)



P = 54 cm

A = 162 cm²

7) The perimeter of a rectangle is 42cm. What could the width and height be? How many different combinations can you find?

Answers will vary

8) Andrew says "The area of squares and square numbers are related."

Do you agree? Explain why.

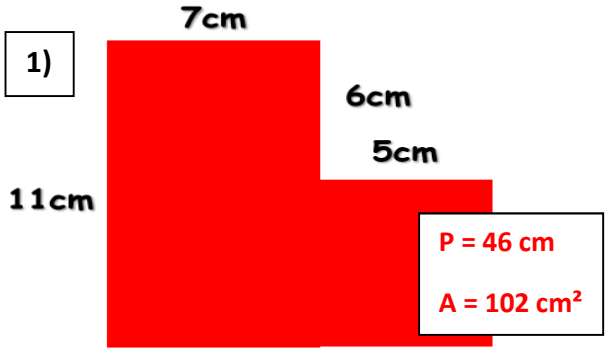
Yes, because…

This week we are revising perimeter, area and volume

LO: To calculate area and perimeter (Gold)-answers

Calculate the area and perimeter of the following shapes

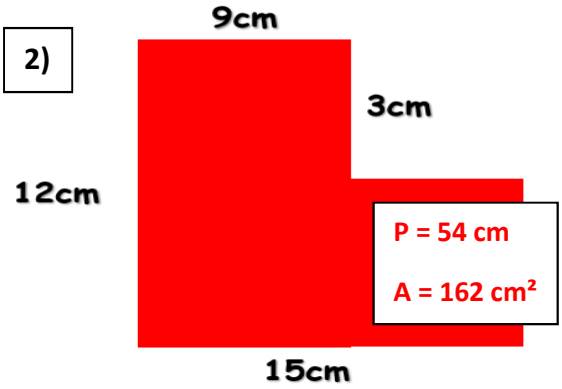
1)



P = 46 cm

A = 102 cm²

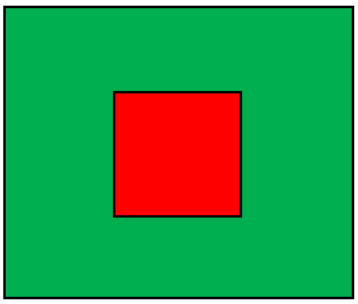
2)



P = 54 cm

A = 162 cm²

3) Look at the squares below:



The perimeter of the inner square is 24cm. The outer squares perimeter is four times the size of the inner square. What is the length of one side of the outer square? How do you know? What do you notice?

24 x 4 = 96 so each side will be 24cm

4) Mr Jones has 50 m of fencing.

He wants to make a rectilinear enclosure using all the fencing.

a) Draw an example of a shape he could make. Give units on your diagram.

Answers will vary

b) What is the greatest possible area of the enclosure? 156 m²

c) What is the smallest possible area of the enclosure? 24m²

5) The perimeter of a rectangle is 42cm. What could the width and height be? How many different combinations can you find?

Answers will vary