

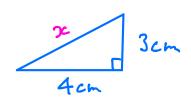
HOMEWORK 15A

Perimeter of simple and composite shapes

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Q1 Calculate Perimeter





$$3^{2} + 4^{2} = x^{2}$$

$$9 + 16 = x^{2}$$

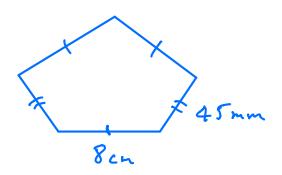
$$25 = x^{2}$$

$$\sqrt{25} = x$$

$$5ch = x$$

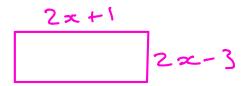
$$4 + 5 + 6 + 2 + 10 + 7$$
= 34 cm





Q3 Perimeter Reasoning

The width of a rectangle is 2x-3 metres Its length is Ametres longer than the width Find its perimeter in terms of x



Perimeter = 2x+1+2x-3+2x+1+2x-3= 8x-4 metres A farmer has 600 m of fencing for a rectangular field. He wants the field to be at least twice as long as it is vide, but no more than 3 times as long as it is vide.

Suggest two sets of dimensions that use up all the fencing and meet his requirements



2x +x +2x +x = 6x

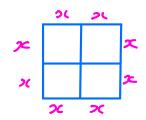
6x = 600 m

200m long 100m wide

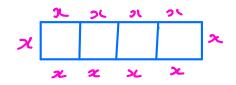
39 + 9 + 39 + 9 = 89 89 = 600m $9 = \frac{600m}{8}$ 9 = 75m 39 = 225m 225m 1009 75m wide

210 m long 90 m wide

Q7 Perimeter Diagrams



The perimeter of these 4 Square tiles is 60 cm



what is the permeter when they are arranged in a line like this?

$$8x = 60cm$$

 $x = \frac{60}{8} = 7.5cm$

New permeter = 10x = 10x 7.5 = 75 cm