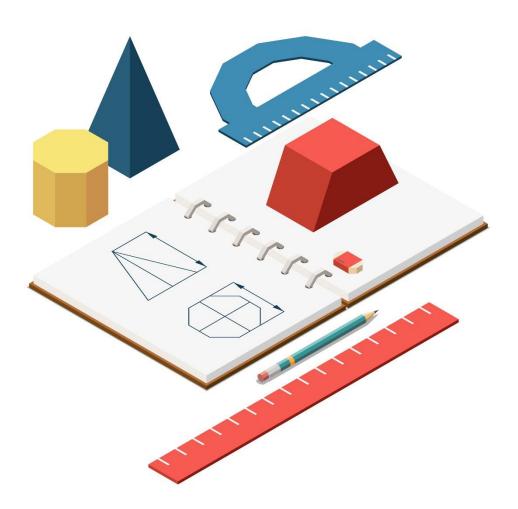




<u>Challenging Area of Rectangle Question</u> (involving a common side)



The main aim of this math revision note is to help your child become better at solving PSLE Math area question that involves a common side.

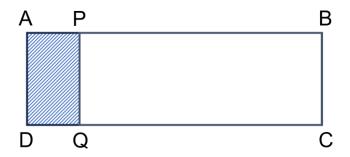
This kind of questions assesses your child's understanding and sense of proportion/ratio visually.



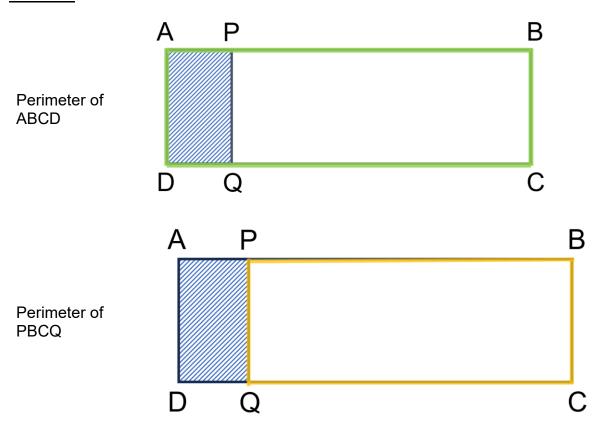


Question

The perimeter of rectangle ABCD is 60 cm more than that of rectangle PBCQ. 15% of rectangle ABCD is shaded. Find the length of QC.

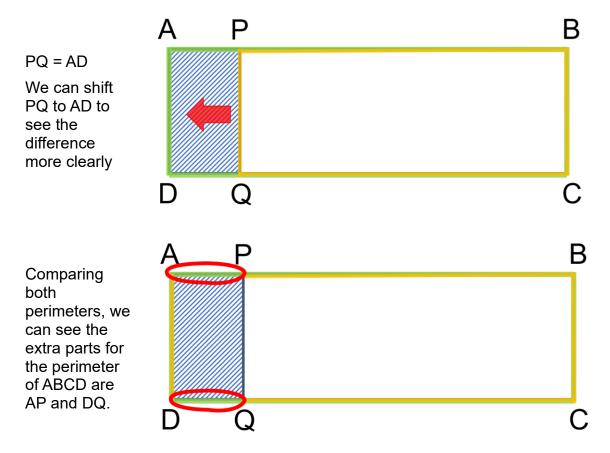


Solutions









Therefore, AP and DQ makes up the difference.

$$AP + DQ = 60 cm$$

Since AP = DQ

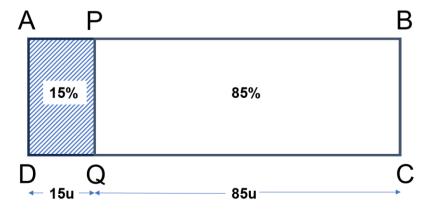
$$AP = 60 \text{ cm} \div 2 = 30 \text{ cm}$$

$$DQ = 30 \text{ cm}$$

Since 15% of the whole rectangle is shaded, we can see that

Shaded area = 15% of total

Unshaded area = 100% - 15% = 85% of total







Since the rectangles share the same breadth, the ratio of the areas and the corresponding lengths will be the same.

Area ratio = Length ratio

Shaded : Unshaded = DQ : QC

 $15 \times AD$: $85 \times AD$ = 15 : 85

15u = 30 cm

 $1u = 30 \text{ cm} \div 15 = 2 \text{ cm}$

 $85u = 2 \text{ cm } \times 85 = 170 \text{ cm}$

To Your Child's Success,



Ms Nelly Ke Math Specialist Jimmy Maths and Grade Solution Learning Centre





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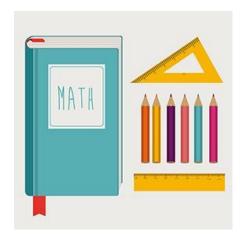
Primary Math Tuition

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