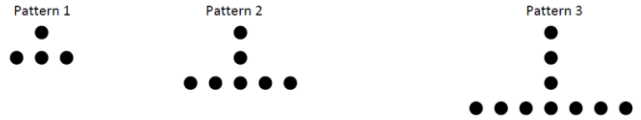


Express 70 as a product of prime factors in the form $2^a \times 3^b \times 5^c \times 7^d$. What are the values a, b, c and d?

Here is a pattern made from dots:



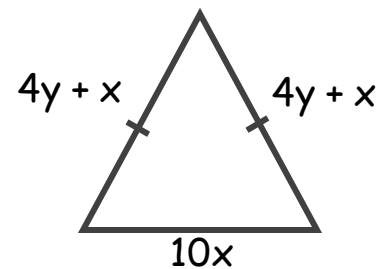
a) Will there will be a pattern with 59 dots?
You must explain your answer.

SIMPLIFY:

A) $(2P^2)^4$

B) 2^{-8}

a) Express the perimeter in terms of x and y.



b) If the perimeter is 48cm. Find the value of x when $y = 3$.

Three alarms go off at 7:30am. One rings every 9 minutes, one rings every 5 minutes and the other rings every 6 minutes. When will they both ring at the same time?

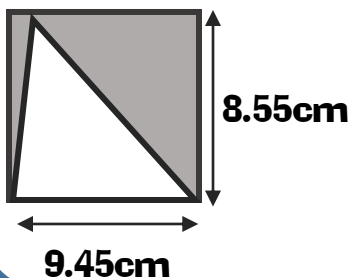
Expand:

a) $(2x - 5)(x + 3)$

Factorise:

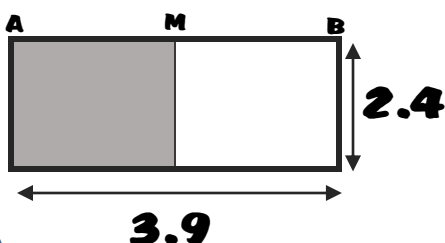
b) $(10y^2 - 35xy)$

Estimate the area of the shaded section.

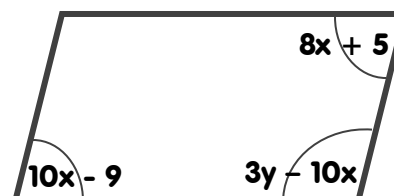


Solve: $8x + 7 = 12x + 6$

Calculate the area of the shaded section. M is the midpoint of line AB.

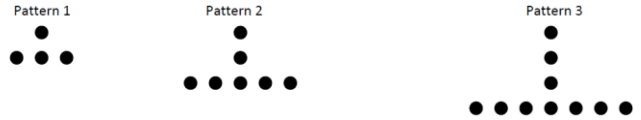


Find the value of x and y



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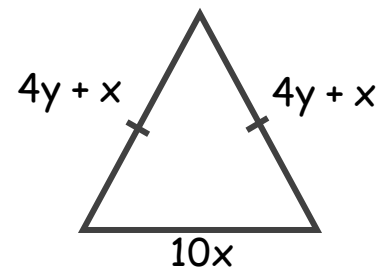
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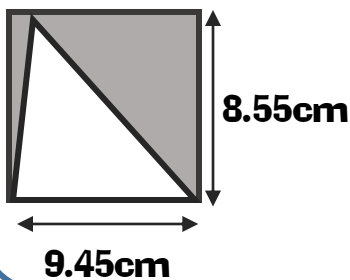
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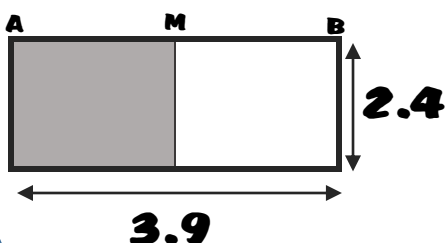
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Find the value of x and y

