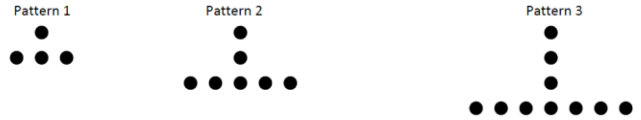


Express 245 as a product of prime factors in the form  $2^a \times 3^b \times 5^c \times 7^d$ . What are the values a, b, c and d?

Here is a pattern made from dots:



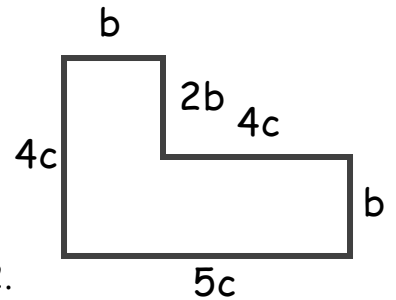
- What is the  $n$ th term?
- Which pattern will have 46 dots?

**SIMPLIFY:**

A)  $(2P^5)^3$

B)  $8^{-2}$

- Express the perimeter in terms of b and c.



- If the perimeter is 42cm. Find the value of b when  $c = 2$ .

Two alarms go off at 7:50am. One rings every 9 minutes and the other rings every 6 minutes. When will they both ring at the same time?

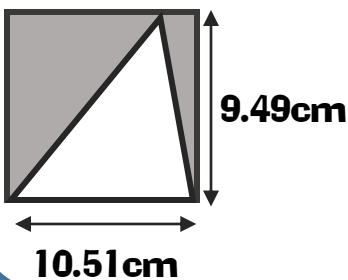
**Expand:**

a)  $(2x - 5)^2$

**Factorise:**

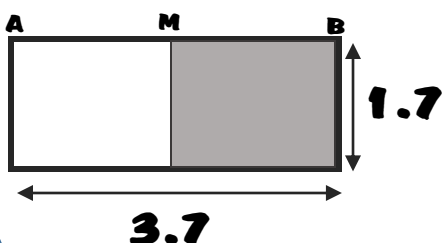
b)  $(6z^2 + 24z)$

**Estimate the area of the shaded section.**

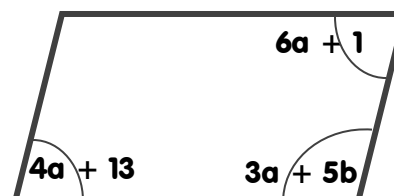


Solve:  $6x + 3 = 10x - 5$

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

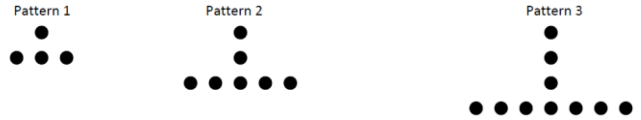


**Find the value of a and b**



Express 245 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:



- What is the  $n$ th term?
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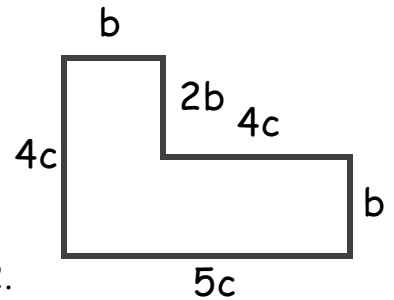
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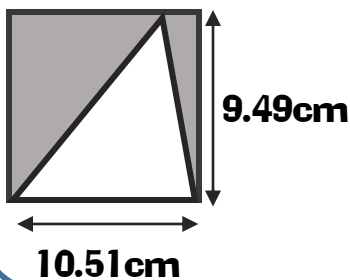
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**Factorise:**

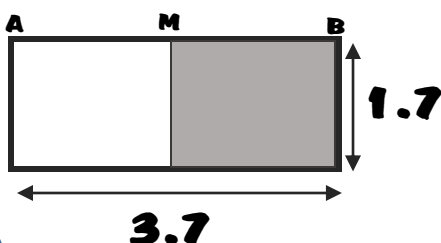
b)  $(6z^2 + 24z)$

**Estimate the area of the shaded section.**



Solve:  $6x + 3 = 10x - 5$

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



**Find the value of a and b**

