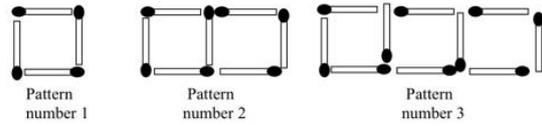


Express 135 as a product of prime factors in the form $2^a \times 3^b \times 5^c \times 7^d$. What are the values a, b, c and d?

The pattern shows a matchstick sequence:



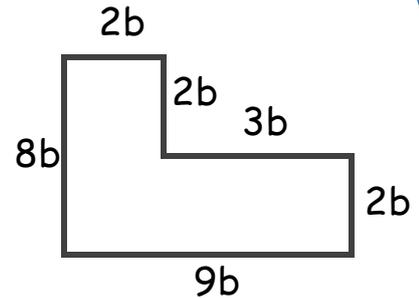
a) How many matchsticks will be in the 13th pattern?

SIMPLIFY:

A) $3P^4 \times 5P^4$

B) $\frac{3P^6 \times 4P^6}{6P^3}$

a) Express the perimeter in terms of b.



b) If the perimeter is 13cm. Find the value of b.

Expand:

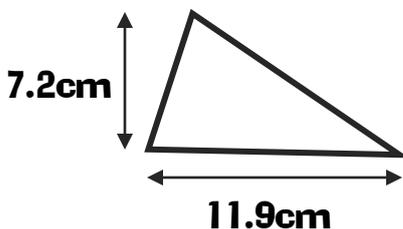
a) $(2x - 1)(2x - 1)$

Factorise:

b) $(30y + 24)$

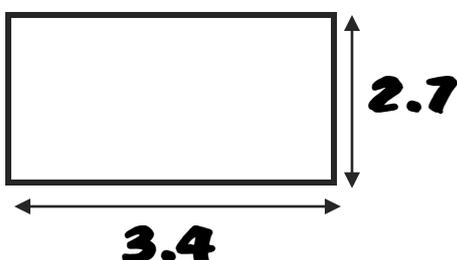
There are 3 different trains running to London. One train leaves every 10 minutes, another leaves every 35 minutes, and the last one leaves every 40 minutes. They first leave at 5:30am. What Time do they all leave again at the same time?

Estimate the area of the following triangle.

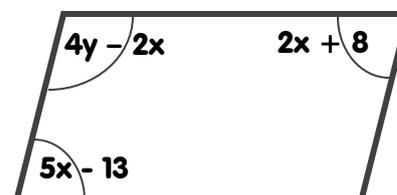


Solve: $10x - 2 = 4x + 1$

Calculate the area

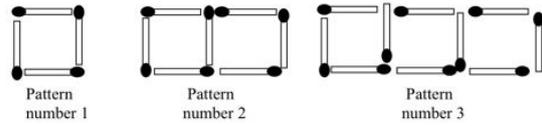


Find the value of x and y



Express 135 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?

The pattern shows a matchstick sequence:



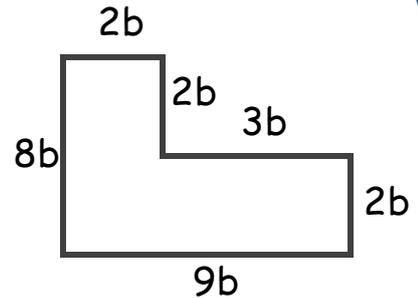
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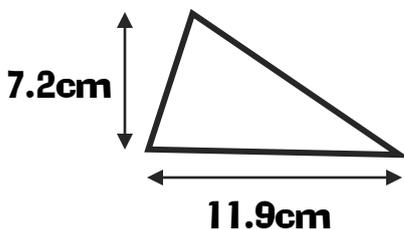
a) $(2x - 1)(2x - 1)$

Factorise:

b) $(30y + 24)$

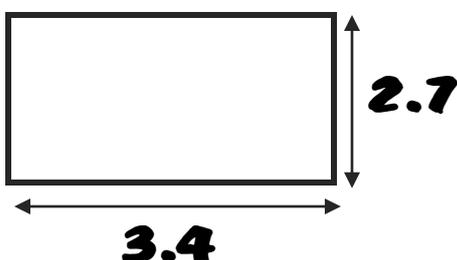
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Estimate the area of the following triangle.



Solve: $10x - 2 = 4x + 1$

Calculate the area



Find the value of x and y

