

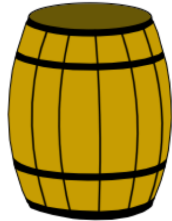


Solve

$$x^2 > 7x + 18$$



4 Litres



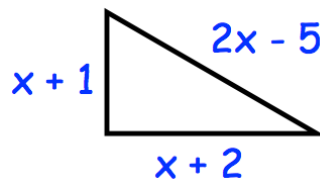
108 Litres

Two barrels are mathematically similar. It takes 80ml of paint to paint the smaller barrel. How much paint is needed for the larger barrel?

Age (A years)	Frequency
$20 < A \leq 25$	145
$25 < A \leq 30$	200
$30 < A \leq 35$	94
$35 < A \leq 40$	141
$40 < A \leq 45$	294
$45 < A \leq 50$	326

Calculate an estimate of the upper quartile.

Shown is a right angled triangle. Find the possible value of x.



Solve the simultaneous equations

$$x - y = 3$$

$$x^2 + y^2 = 89$$