

**9th May**

Corbettmaths

Solve  $x^2 + 2x - 15 < 0$

$f(x) = 7x - 2$

Find  
 $f^{-1}x$ 

A bag contains 4 red sweets and 5 green sweets.

Kelly removes 3 sweets, one at a time, without replacement.

Find the probability that she chooses 3 sweets of the same colour.

Calculate an estimate of the median

Time taken	Frequency
$0 < t \leq 10$	135
$10 < t \leq 20$	244
$20 < t \leq 30$	555
$30 < t \leq 50$	106
$50 < t \leq 100$	20

Find the shortest possible distance between the line  $y = 4x + 5$  and the origin.