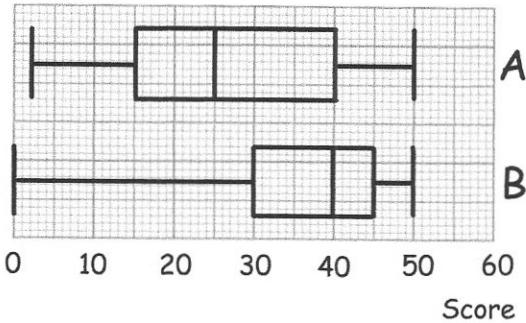




Class A and class B sit a maths test, marked out of 50.

The box plots show information about their results.

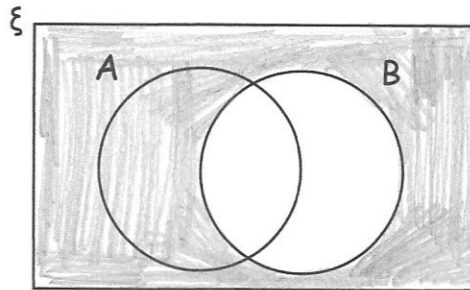


Compare the distribution of Class A's scores with the distribution of Class B's scores.

*Class B (median 40) performed better than class A (median 25)*

*Class A (IQR 25) has more spread out results than class B (IQR 15)*

Show  $B'$  on the Venn Diagram



Solve, giving your answers to 1 decimal place.

$$x^2 - 10x + 3 = 0$$

$a = 1$   
 $b = -10$   
 $c = 3$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{10 \pm \sqrt{100 - 12}}{2}$$

$$x = \frac{10 \pm \sqrt{88}}{2}$$

$$x = 9.7 \quad \text{or} \quad x = 0.3$$

Make  $a$  the subject of:

$$\frac{w(a+4)}{a-3} = 4$$

$$aw + 4w = 4a - 12$$

$$4w + 12 = 4a - aw$$

$$4w + 12 = a(4-w)$$

$$a = \frac{4w+12}{4-w}$$

$$a = \frac{4w+12}{4-w}$$