



# Solution

29th January 2018

**X = 19**

**Winner:**

**Anusree**

**Pittala 9S**

→ What value of  $x$  makes the mean of the first three numbers in this list equal to the mean of the last four?

15 5  $x$  7 9 17

$$\circ \circ \frac{15+5+x}{3} = \frac{x+7+9+17}{4}$$

$$\circ \circ \frac{20+x}{3} = \frac{33+x}{4}$$

$$\circ \circ 4(20+x) = 3(33+x)$$

$$\circ \circ 80+4x = 99+3x$$

$$\circ \circ 4x-3x = 99-80$$

$$\circ \circ x = 19$$

$$\circ \circ x = 19$$

-Anusree Pittala  
9S

**Anusree's excellent solution!**