Estimating mean from a table

worked example

This table shows estimates of noon temps.

temp (t°C)	no. of days	MP	F x MP
10 ≤ t < 15	5	12.5	62.5
15 ≤ t < 20	7	17.5	122.5
20 ≤ t < 25	23	22.5	517.5
25 ≤ t < 30	48	27.5	1320
30 ≤ t < 35	7	32.5	227.5
35 ≤ t < 40	2	37.5	75
	F = 92		T = 2325

Work out an estimate for the mean noon temp.
Give your answer to 3 significant figures.

Step 1: add a midpoint column (highlighted above) and work out the midpoints.

Step 2: add a frequency x midpoint column (highlighted above)
After this you can cross out the 1st and 3rd columns, as they're no longer needed.

Step 3: work out the totals of the remaining columns (also highlighted above)

Step 4: Finally to find out the estimate for the mean, divide the F x MP total by the frequency column total

$2325 \div 92 = 25.3\,^{\circ}C$

answer to 3 sig fig = $25.3\,^{\circ}C$