

Fill in the Blanks

Combining Means

Question	Table				Answer
There are 30 students in 8A and 20 students in 8B. On their Chemistry homework, 8A scored a mean of 8.6 and 8B scored a mean of 9.1. Find the combined mean across both classes.	Group	Frequency	Mean	Total	$\frac{440}{50}$ <p>8.8</p>
	8A	30	8.6	258	
	8B	20	9.1	182	
	Combined	50		440	
In a bag there are 8 apples, with a mean weight of 120 g. In a box there are 12 apples, with a mean weight of 132 g. Find the mean weight of all the apples combined.	Group	Frequency	Mean	Total	$\frac{2544}{20}$ <p>127.2 g</p>
	Bag	8	120	960	
	Box	12	132	1584	
	Combined	20		2544	
In a class there are 16 boys and 14 girls. In a test the mean score for boys is 17 and the mean score for girls is 17.6. Find the combined mean score for the whole class.	Group	Frequency	Mean	Total	$\frac{518.4}{30}$ <p>17.28</p>
	Boys	16	17	272	
	Girls	14	17.6	246.4	
	Combined	30		518.4	
Rovers A team play 16 games and score a mean of 2.5 goals per game. Rovers B team play 20 games and score a mean of 1.6 goals per game. Find the mean goals per game across both teams.	Group	Frequency	Mean	Total	$\frac{72}{36}$ <p>2 goals</p>
	A team	16	2.5	40	
	B team	20	1.6	32	
	Combined	36		72	
Class 7X contains 20 children and their mean height is 156 cm. Class 7Y contains 22 children and their mean height is 148 cm. Find the mean height across both classes, giving your answer to 1 decimal place.	Group	Frequency	Mean	Total	$\frac{6376}{42}$ <p>151.8 cm</p>
	7X	20	156	3120	
	7Y	22	148	3256	
	Combined	42		6376	