

# Mean from Frequency Tables Example

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The frequency table shows pupil ages. Find the mean.

Age	Frequency
8	12
9	25
10	37
11	14



**STEP 1: Find  $fx$**

Age (x)	Frequency (f)	$fx$
8	12	$8 \times 12 = 96$
9	25	$9 \times 25 = 225$
10	37	$10 \times 37 = 370$
11	14	$11 \times 14 = 154$

**STEP 2: Find the total of  $fx$**

Age (x)	Frequency (f)	$fx$
8	12	$8 \times 12 = 96$
9	25	$9 \times 25 = 225$
10	37	$10 \times 37 = 370$
11	14	$11 \times 14 = 154$
		<b><math>= 845</math></b>

**STEP 3: Find the total frequency (f)**

Age (x)	Frequency (f)	$fx$
8	12	$8 \times 12 = 96$
9	25	$9 \times 25 = 225$
10	37	$10 \times 37 = 370$
11	14	$11 \times 14 = 154$
	<b><math>= 88</math></b>	<b><math>= 845</math></b>

**STEP 4: Divide the total  $fx$  by the total frequency (f)**

$$845 \div 88 = 9.6$$

**The mean is 9.6 years**