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Finding averages worksheet

`=SUMPRODUCT(B3:B6,C3:C6)/(1+1+2+3)`

	A	B	C	D
1	Student Grading			
2	Assessment	Weight	Mark	
3	Assignments	1	70	
4	Tests	1	76	
5	Mid Term	2	71	
6	Final Exam	3	74	
7	Final Mark		72.9	
8				
9				
10				

Finding the weighted average with SUMPRODUCT

Averages Worksheet 8

1) Jenna has been conducting a survey to find out how many hours of TV pupils watch. Jenna asked a random sample of fifteen Year 7 pupils and fifteen Year 13 pupils how many hours they spend watching TV each day. The results are shown in the bar charts below.

Year 7

Year 13

a. Find the mean and range for Year 7 pupils.
 b. Find the mean and range for Year 13 pupils.
 c. Briefly comment on how the two sets of data compare.

2) Here are two sets of data for the fruit weight of samples of two different brands that sell 2 litre drinks. Which brand would you rather buy and why?

Volume (Litres)	Fruity Sip (Litres)
2.01	1.97
2.03	2.00
2.02	2.01
2.04	2.08
1.98	1.96

3) Use the mode and median to compare the time spent browsing the internet each day by men and women.

Time (to the nearest minute)	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 - 89	90 - 120
Number of women	1	0	5	8	12	4				
Number of men	0	3	7	9	10					

4) The time it took for two runners to complete ten 400 metre laps are shown below. Which is the better runner and why?

Runner	69.1	68.0	63.1	65.9	67.2	74.7	65.2	66.3	64.4	70.1
Runner A	69.1	68.0	63.1	65.9	67.2	74.7	65.2	66.3	64.4	70.1
Runner B	67.1	66.5	68.7	66.3	69.2	65.8	64.0	67.9	66.1	65.2

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Percentages to Fractions Worksheet 21

1) 28% = 10% = 20% =
 50% = 30% = 40% =
 75% = 70% = 60% =

2) 1% = 9% = 5% =
 3% = 2% = 6% =
 7% = 4% = 8% =

3) 55% = 23% = 13% =
 71% = 89% = 11% =
 19% = 97% = 61% =

4) 55% = 36% = 87% =
 72% = 88% = 35% =
 22% = 49% = 33% =

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Mean from a Grouped Frequency Table

Henry likes to collect stamps. The cost of 150 of his favourite stamps is summarised in the table below. Calculate an estimate for the mean price of one of Henry's stamps.

Stamp Price	Frequency
20 - 26	24
27 - 33	39
34 - 40	50
41 - 47	37

Georgia likes to listen to Classic FM. She recorded the number of times she hears Nessun Dorma each week for a year. Her findings are shown in the table below. Calculate an estimate for the mean number of plays Nessun Dorma had a week.

Number of plays a week	Frequency
1 - 3	4
4 - 6	27
7 - 9	16
10 - 12	4
13 - 15	1

Fiona works in a call centre. She records the length of each phone call in the table below. Calculate an estimate for the mean length of a phone call.

Length of call (mins)	Frequency
1 - 4	3
5 - 8	32
9 - 12	30
13 - 16	45
17 - 20	17

