



MATHS HOMEWORK = HELP

## Fractions Increase & Decrease

Increase the following amounts by the percentages below (to the nearest whole number where necessary):-

	$\frac{2}{5}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{7}{8}$	$\frac{2}{9}$
200					
900					
600					
150					
850					
710					
280					
540					
920					
430					

Decrease the following amounts by the percentages below (to the nearest whole number where necessary):-

	$\frac{2}{5}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{7}{8}$	$\frac{2}{9}$
200					
900					
600					
150					
850					
710					
280					
540					
920					
430					



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## Answers

Increase the following amounts by the percentages below (to the nearest whole number where necessary):-

	$\frac{2}{5}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{7}{8}$	$\frac{2}{9}$
200	280	350	367	375	244
900	1260	1575	1650	1688	1100
600	840	1050	1100	1125	733
150	210	263	275	281	183
850	1190	1488	1558	1594	1039
710	994	1243	1302	1331	868
280	392	490	513	525	342
540	756	945	990	1013	660
920	1288	1610	1687	1725	1124
430	602	753	788	806	526

Decrease the following amounts by the percentages below (to the nearest whole number where necessary):-

	$\frac{2}{5}$	$\frac{3}{4}$	$\frac{5}{6}$	$\frac{7}{8}$	$\frac{2}{9}$
200	120	50	33	25	156
900	540	225	150	113	700
600	360	150	100	75	467
150	90	38	25	19	117
850	510	213	142	106	661
710	426	178	118	89	552
280	168	70	47	35	218
540	324	135	90	68	420
920	552	230	153	115	716
430	258	108	72	54	334



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## **Tips and Techniques**

1. Read each question slowly. You may find it helpful to underline the numbers and important information that will affect your answer.

*For example: Find 23 more than 57?*

2. If you do not understand the question straightaway, try reading it through a couple of times until it makes sense.

3. Make sure you read the question carefully. Often, the words highlighted in bold in the question will be the part you need to pay the most attention to, e.g. *Which country had the **greatest increase** in visitors from 2005 to 2006?*

4. Even if you know the answer to the question without working it out on paper, it is important to always show your working out in the box provided. You will lose marks if you do not do this.

5. Always use a ruler when drawing shapes, symmetry or graphs.

6. Topics that are useful to revise;

\* **Time** - 24 hour clock, adding a length of time e.g. 45 minutes to a certain time. An example of a question where time is used is - *"The time is one thirty in the afternoon. Write this as it would be shown on a twenty-four hour clock?"*

\* **Money** - find the total amount of shopping items, how much change will you get from a £5, £10 note etc.

\* **Number calculations** - times tables, addition, subtraction, multiplication and division methods.

\* **Measurement** - how many metres in a kilometre, millilitres in a litre and grams in a kilogram?

\* **Percentages and fractions** -  $1/2=0.5$  or 50%,  $1/4=0.25$  or 25%,  $3/4=0.75$  or 75%,  $1/3=0.33$  or 33%,  $1/5=0.2$  or 20%

7. Check to see how many marks the question is worth. If it is worth more than one mark, make sure you show your working out.

8. Use everyday objects to help your child practice certain topics. For example; a shopping receipt can be good revision for money questions - adding totals and finding change. Other useful objects that you could use are;

\* **Television Guide** - Practice the time a programme starts, what time will it finish? how long does the programme last?

\* **Weather Chart** - Change in temperature - e.g. *The temperature fell from 3 degrees celsius to -4 degrees celsius. By how many degrees did the temperature fall?*

\* **Measure yourself and other family members to practice height** (in cm, metres), weight (in grams, kilograms), area of hands and feet. You could also calculate the average family height, weight etc.