



MATHS HOMEWORK = HELP

## Percentage Increase & Decrease

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

	<b>25%</b>	<b>85%</b>	<b>12%</b>	<b>34%</b>	<b>68%</b>
300					
500					
700					
750					
450					
650					
280					
640					
880					
210					

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

	<b>25%</b>	<b>85%</b>	<b>12%</b>	<b>34%</b>	<b>68%</b>
300					
500					
700					
750					
450					
650					
280					
640					
880					
210					



MATHS HOMEWORK = HELP

## Answers

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

	<b>25%</b>	<b>85%</b>	<b>12%</b>	<b>34%</b>	<b>68%</b>
300	375	555	336	402	504
500	625	925	560	670	840
700	875	1295	784	938	1176
750	938	1388	840	1005	1260
450	563	833	504	603	756
650	813	1203	728	871	1092
280	350	518	314	375	470
640	800	1184	717	858	1075
880	1100	1628	986	1179	1478
210	263	389	235	281	353

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

	<b>25%</b>	<b>85%</b>	<b>12%</b>	<b>34%</b>	<b>68%</b>
300	225	45	264	198	96
500	375	75	440	330	160
700	525	105	616	462	224
750	563	113	660	495	240
450	338	68	396	297	144
650	488	98	572	429	208
280	210	42	246	185	90
640	480	96	563	422	205
880	660	132	774	581	282
210	158	32	185	139	67



MATHS HOMEWORK = HELP

## **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.