



MATHS HOMEWORK = HELP

Percentage Increase & Decrease

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

	10%	50%	20%	5%
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):-

	10%	50%	20%	5%
300				
500				
700				
750				
450				
650				
280				
640				
880				
210				



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Answers

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

	10%	50%	20%	5%
300	330	450	360	315
500	550	750	600	525
700	770	1050	840	735
750	825	1125	900	788
450	495	675	540	473
650	715	975	780	683
280	308	420	336	294
640	704	960	768	672
880	968	1320	1056	924
210	231	315	252	221

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

	10%	50%	20%	5%
300	270	150	240	285
500	450	250	400	475
700	630	350	560	665
750	675	375	600	713
450	405	225	360	428
650	585	325	520	618
280	252	140	224	266
640	576	320	512	608
880	792	440	704	836
210	189	105	168	200



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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.