



MATHS HOMEWORK = HELP

Percentage Difference

- 1) Find 12 as a percentage of 40.
- 2) Find 25 as a percentage of 35.
- 3) Find 32 as a percentage of 80.
- 4) Find 40 as a percentage of 90.
- 5) Find 72 as a percentage of 80.
- 6) Find 62 as a percentage of 86.
- 7) Find 57 as a percentage of 95.
- 8) Find 92 as a percentage of 175.
- 9) Find 24 as a percentage of 166.
- 10) Find 55 as a percentage of 208.

- 11) What is the percentage difference when 24 has increased to 46?
- 12) What is the percentage difference when 58 has increased to 74?
- 13) What is the percentage difference when 73 has increased to 110?

- 14) What is the percentage difference when 80 has decreased to 65?
- 15) What is the percentage difference when 152 has decreased to 120?
- 16) A coat was reduced in the sale from £85 to £60. What is the percentage difference?
- 17) The average rainfall in January fell from 162mm to 138mm in May. What is the percentage difference?
- 18) The number of pupils in a secondary school rose from 462 pupils to 516 over 10 years. What is the percentage difference?
- 19) My rent was increased from £820 a month to £945 a month. What is the percentage difference?
- 20) The price of a TV was reduced from £550 to £380. What is the percentage difference?



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Answers

- 1) Find 12 as a percentage of 40. 30%
- 2) Find 25 as a percentage of 35. 71%
- 3) Find 32 as a percentage of 80. 40%
- 4) Find 40 as a percentage of 90. 44%
- 5) Find 72 as a percentage of 80. 90%
- 6) Find 62 as a percentage of 86. 72%
- 7) Find 57 as a percentage of 95. 60%
- 8) Find 92 as a percentage of 175. 53%
- 9) Find 24 as a percentage of 166. 14%
- 10) Find 55 as a percentage of 208. 26%

- 11) What is the percentage difference when 24 has increased to 46? 92%
- 12) What is the percentage difference when 58 has increased to 74? 28%
- 13) What is the percentage difference when 73 has increased to 110? 51%

14) What is the percentage difference when 80 has decreased to 65? 19%

15) What is the percentage difference when 152 has decreased to 120? 21%

16) A coat was reduced in the sale from £85 to £60. What is the percentage difference? 29%

17) The average rainfall in January fell from 162mm to 138mm in May. What is the percentage difference? 15%

18) The number of pupils in a secondary school rose from 462 pupils to 516 over 10 years. What is the percentage difference? 12%

19) My rent was increased from £820 a month to £945 a month. What is the percentage difference? 15%

20) The price of a TV was reduced from £550 to £380. What is the percentage difference? 31%



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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.