



MATHS HOMEWORK = HELP

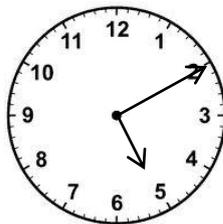
Mental Maths 6

Calculate the answers to the following mental maths questions as quickly as you can! :-

- 1) Round the number 7.6 to the nearest unit.
- 2) Which fraction is the biggest $\frac{1}{2}$ or $\frac{3}{4}$?
- 3) Is the angle below acute, obtuse or a right-angle?



- 4) Find 20% of 320.
- 5) What is 1.4 multiplied by 100?
- 6) What is the largest number you can make out of the numbers 2, 1, and 5?
- 7) What are the factors of 20?
- 8) Find the range of the following numbers 8 12 6 15 10
- 9) What year would it be 15 years after 1942?
- 10) How many minutes are there in $2\frac{1}{2}$ hours?
- 11) Look at the time shown on the clock. What would be the time one hour later?



- 12) What number is exactly half-way between 24 and 36?
- 13) $9 \times \underline{\quad} = 54$
- 14) I am going to the races. I buy a dress for £120, and a matching pair of shoes for £35. How much have I spent altogether?
- 15) I think of a number, multiple it by 4, and then subtract 5. The answer is 11. What is my number?



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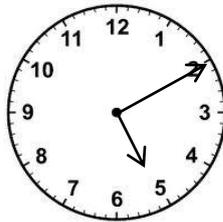
Answers

Calculate the answers to the following mental maths questions as quickly as you can! :-

- 1) Round the number 7.6 to the nearest unit. **8**
- 2) Which fraction is the biggest $\frac{1}{2}$ or $\frac{3}{5}$? **$\frac{3}{5}$**
- 3) Is the angle below acute, obtuse or a right-angle? **obtuse**



- 4) Find 20% of 320. **64**
- 5) What is 1.4 multiplied by 100? **140**
- 6) What is the largest number you can make out of the numbers 2, 1, and 5? **521**
- 7) What are the factors of 20? **1, 2, 4, 5, 10, 20**
- 8) Find the range of the following numbers 8 12 6 15 10 **9**
- 9) What year would it be 15 years after 1942? **1957**
- 10) How many minutes are there in $2\frac{1}{2}$ hours? **150**
- 11) Look at the time shown on the clock. What would be the time one hour later? **06:10**



- 12) What number is exactly half-way between 24 and 36? **30**
- 13) $9 \times \underline{\quad} = 54$ **6**
- 14) I am going to the races. I buy a dress for £120, and a matching pair of shoes for £35. How much have I spent altogether? **£155**
- 15) I think of a number, multiple it by 4, and then subtract 5. The answer is 11. What is my number? **4**



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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.