



## Mental Maths – Lower Tier

- 1) What is one pound and seventy-two pence rounded to the nearest pound?
- 2) How many minutes are there in 3 hours?
- 3) What is minus five add ten?
- 4) Write in figures the number seven hundred and thirty-one.
- 5) Multiply five hundred and twelve by ten.
  
- 6) In the sequence 0.5, 1.0, 1.5, 2.0. What are the next two numbers?
- 7) Round the number 1917 to the nearest hundred.
- 8) My favourite tv program starts at 7.30pm and lasts for 50 minutes. What time does it finish?
- 9) Add together 1.4 and 0.7.
- 10) What number is halfway between 2.2 and 2.8?
- 11) What is  $3x + 9x$ ?
- 12) If each side of a hexagon is 7cm. What is its perimeter?
- 13) What is 50% of £120?
- 14) How many degrees are there in a triangle?
- 15) 120 people were asked if they liked going to the cinema.  $\frac{1}{3}$  of them said no. How many people said no?

- 16) I think of a number. I half it and add 4. My answer is 9. What is my number?
- 17) If an equilateral triangle is 4cm each side. What is its area?
- 18) Jake tosses a fair coin. What is the probability that he gets an even number?
- 19) What does 2.3 multiplied by 5 equal?
- 20) How many pairs of parallel sides does a trapezium have?



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## Answers

- 1) What is one pound and seventy-two pence rounded to the nearest pound? **£2**
- 2) How many minutes are there in 3 hours? **180 minutes**
- 3) What is minus five add ten? **5**
- 4) Write in figures the number seven hundred and thirty-one. **731**
- 5) Multiply five hundred and twelve by ten. **5120**
  
- 6) In the sequence 0.5, 1.0, 1.5, 2.0. What are the next two numbers? **2.5 and 3**
- 7) Round the number 1917 to the nearest hundred. **1900**
- 8) My favourite tv program starts at 7.30pm and lasts for 50 minutes. What time does it finish? **8.20pm**
- 9) Add together 1.4 and 0.7. **2.1**
- 10) What number is halfway between 2.2 and 2.8? **2.5**
- 11) What is  $3x + 9x$ ?  **$12x$**
- 12) If each side of a hexagon is 7cm. What is its perimeter? **42cm**
- 13) What is 50% of £120? **£60**
- 14) How many degrees are there in a triangle?  **$180^\circ$**
- 15) 120 people were asked if they liked going to the cinema.  $\frac{1}{3}$  of them said no. How many people said no? **40**

- 16) I think of a number. I half it and add 4. My answer is 9. What is my number? **10**
- 17) If an equilateral triangle is 4cm each side. What is its area? **8 cm<sup>2</sup>**
- 18) Jake tosses a fair coin. What is the probability that he gets an even number?  **$\frac{1}{2}$**
- 19) What does 2.3 multiplied by 5 equal? **11.5**
- 20) How many pairs of parallel sides does a trapezium have? **1**



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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.