

Mathematics

Mixed Arithmetic (The four operations)

What do I do?



A lot of 11+ papers and online assessments will include straight-forward questions involving 'the four operations'. The 'four operations' are: addition, subtraction, multiplication and division. This could be in relation to whole numbers, decimal numbers, fractions or percentages.

Top Tips!



- You will need to have a good knowledge of your times tables and related division facts.
- Make sure you know how to calculate simple percentages of amounts such as 10%, 50% and 25%.
- Some arithmetic questions will require you to write down your answer and show your working.

What skills do I need to improve?



Doing lots of practice questions will help with becoming familiar with question types but what else can you do to improve in this area?

- You could try daily, short arithmetic exercises.
- Play multiplication games/quizzes on various apps and online platforms.
- When you're shopping and there's a sale - see if you can calculate 10% off in your head and test yourself at the checkout!
- Any quick arithmetic exercises that you do will help and with these questions, especially ones without a word problem, the aim of the game is to be as fast as you can! If you can work these out speedily, you'll have more time to spend on the trickier word problems, usually found at the end of the paper.

Questions

1. 25% of $500 =$

2. $\frac{2}{3} + \frac{4}{9} =$

3. $27 \times 7 =$

4. $8912 \div 8 =$

5. $\frac{4}{5} \times \frac{2}{3} =$

6. $6.72 + 8.9 =$

7. $4006 - 2192 =$

8. $432 \div 100 =$

9. $21837 + 9023 =$

10. $192 \times 64 =$

What is the **FASTEST** way to solve 24% of 50?

You will need to write some of these down!

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Answers

1. 25% of $500 = 125$

2. $\frac{2}{3} + \frac{4}{9} = 1 \frac{1}{9}$ or $\frac{10}{9}$

3. $27 \times 7 = 189$

4. $8912 \div 8 = 1114$

5. $\frac{4}{5} \times \frac{2}{3} = \frac{8}{15}$

6. $6.72 + 8.9 = 15.62$

7. $4006 - 2192 = 1814$

8. $432 \div 100 = 4.32$

9. $21837 + 9023 = 30860$

10. $192 \times 64 = 12288$

You may get an extra mark for questions that need workings to be shown!



24% of 50 *is the same* as 50% of 24
Simply halve 24 in your head and you're there! **The answer is 12.**