

Free 11+ Maths Practice Questions with answers

Boost your child's confidence with these challenging maths questions carefully designed to support KS2 maths mastery and early 11+ preparation in the UK. This set includes engaging maths reasoning questions with answers, helping children develop problem-solving skills essential for grammar school entrance exams. Ideal for parents searching for 11+ maths practice. This activity supports learning at home or in tutoring sessions.

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Use the questions below to practice key skills and identify areas your child needs to revisit to secure their understanding and skills. These can either be completed alone or with an adult depending on your child.

1. Calculate: $3.6 \times 2.5 + 4.2 \div 0.7$
2. A number is increased by 25% and becomes 150. What was the original number?
3. Find the LCM of 18 and 24.
4. Write 0.375 as a fraction in its simplest form.
5. A shop reduces a £80 jacket by 15%. What is the sale price?
6. Simplify: $34 + 5843 + 85$
7. Divide £72 in the ratio 5:3.
8. If 4 pens cost £3.20, how much do 7 pens cost?
9. A recipe for 4 people needs 300g of flour. How much is needed for 10 people?
10. Simplify the ratio 45:60.
11. Find the area of a triangle with base 10 cm and height 7 cm.
12. A rectangle has length 12 cm and width 5 cm. Find its perimeter.
13. What is the sum of the angles in a pentagon?
14. A square has area 64 cm^2 . What is the length of one side?
15. Find the missing angle in a triangle with angles 45° and 65° .
16. Solve: $3x + 7 = 25$
17. Find the next number: 4, 9, 16, 25, ____
18. If $x = 5$, find the value of $2x^2 - 3x$
19. Solve: $5x - 2 = 3x + 10$
20. Find the nth term of the sequence: 3, 6, 9, 12, ...
21. A train travels 120 km in 2 hours. What is its average speed?



22. Sarah saves £5 per week. How much does she save in 9 months (assume 4 weeks per month)?
23. A box contains red and blue balls in the ratio 2:3. If there are 30 balls, how many are blue?
24. A number is doubled and then 6 is added to get 20. What is the number?
25. A class of 30 students has 40% boys. How many girls are there?



Answers

1. $3.6 \times 2.5 = 9$, $3.6 \times 2.5 = 9$, $4.2 \div 0.7 = 6$, $4.2 \div 0.7 = 6 \rightarrow$ Total = 15
2. $150 \div 1.25 = 120$, $150 \div 1.25 = 120 \rightarrow$ Original = 120
3. LCM = 72
4. $0.375 \times 380 = 142.5$
5. 15% of 80 = 12 \rightarrow £68
6. $34 \div 4 = 8.5$, so total = $11\frac{1}{8}$ or $1\frac{3}{8}$
7. Total parts = 8 \rightarrow $\pounds 72 \div 8 = 9 \rightarrow$ £45 and £27
8. $\pounds 3.20 \div 4 = \pounds 0.80$ each $\rightarrow \times 7 = \pounds 5.60$
9. $300 \div 4 \times 10 = 750g$, $300 \div 4 \times 10 = 750g$
10. Divide both by 15 \rightarrow 3:4
11. $12 \times 10 \times 7 = 35 \text{ cm}^2$, $21 \times 10 \times 7 = 35 \text{ cm}^2$
12. Perimeter = $2(12+5) = 34 \text{ cm}$, $2(12+5) = 34 \text{ cm}$
13. $(5-2) \times 180 = 540^\circ$, $(5-2) \times 180 = 540^\circ$
14. Side = $64 \div 8 = 8 \text{ cm}$, $64 \div 8 = 8 \text{ cm}$
15. $180 - (45+65) = 70^\circ$, $180 - (45+65) = 70^\circ$
16. $3x = 18 \rightarrow x = 6$, $3x = 18 \rightarrow x = 6$
17. Squares: $6^2 = 36$, $6^2 = 36$
18. $2(25) - 15 = 35$, $2(25) - 15 = 35$
19. $2x = 12 \rightarrow x = 6$, $2x = 12 \rightarrow x = 6$
20. $3n$
21. Speed = $120 \div 2 = 60 \text{ km/h}$, $120 \div 2 = 60 \text{ km/h}$
22. 9 months = 36 weeks $\rightarrow 36 \times 5 = \pounds 180$, $36 \times 5 = \pounds 180$
23. Total parts = 5 \rightarrow each = 6 \rightarrow blue = $3 \times 6 = 18$, $3 \times 6 = 18$
24. $2x + 6 = 20 \rightarrow 2x = 14 \rightarrow x = 7$, $2x + 6 = 20 \rightarrow 2x = 14 \rightarrow x = 7$
25. Boys = 12 \rightarrow Girls = 18

