JRA Tutors
Free level-check quiz

GCSE Maths Quiz: Foundation

20 questions · about 30 minutes · calculator allowed

How to use this quiz

1. Try it on your own, without help. You can use a calculator. Each question is worth 1 mark.

2. Mark yourself using the answer page at the end. Don't peek until you've finished.

3. Send us your score (instructions on the answer page) and we'll tell you what to work on next.

Name: _____ Date: _____ Score: _____ / 20

1. Work out 3.6 + 4.75

Answer: _____

2. Write $^{2}/_{5}$ as a percentage.

Answer: _____

3. Work out 15% of £80.

Answer: _____

4. Simplify 3a + 5b − a + 2b

Answer: _____

5. Solve 3x + 7 = 25

Answer: _____

6. Share £84 in the ratio 3 : 4. How much is the larger share?

Answer: _____

7. Expand and simplify (x + 3)(x + 2)

Answer: _____

8. Find the nth term of this sequence: 5, 8, 11, 14, ...

Answer: _____

9. A train travels 150 km in 2.5 hours. Work out its average speed in km/h.

Answer: _____

10. A right-angled triangle has two shorter sides of 6 cm and 8 cm. Work out the length of the longest side.

Answer: _____

11. Two angles in a triangle are 48° and 77°. Work out the third angle.

Answer: _____

12. A circle has radius 6 cm. Work out its circumference. Give your answer in terms of π.

Answer: _____

13. Work out the mean of 4, 7, 9, 12 and 13.

Answer: _____

14. A bag has 5 red, 3 blue and 2 green counters. One counter is taken at random. Write the probability it is blue.

Answer: _____

15. Write 0.0032 in standard form.

Answer: _____

16. Increase £250 by 12%.

Answer: _____

17. Solve the inequality $2x - 3 < 9$

Answer: _____

18. Factorise $x^2 + 7x + 12$

Answer: _____

19. A jacket costs £42 after a 30% reduction. Work out the original price.

Answer: _____

20. A straight line passes through (1, 3) and (3, 11). Work out its gradient.

Answer: _____

Answers and score guide

Mark your quiz with a tick or a cross. Each correct answer is 1 mark.

1	8.35	**11**	55°
2	40%	**12**	12π cm
3	£12	**13**	9
4	2a + 7b	**14**	3/10
5	x = 6	**15**	3.2×10^{-3}
6	£48	**16**	£280
7	$x^2 + 5x + 6$	**17**	x < 6
8	3n + 2	**18**	(x + 3)(x + 4)
9	60 km/h	**19**	£60
10	10 cm	**20**	4

What your score suggests

0–7 — **Building foundations**
Several core topics need securing first. Short, regular practice on number, fractions and basic algebra will make the biggest difference.

8–13 — **Developing**
A decent base. Focus on turning near-misses into marks, especially percentages, ratio and equations.

14–17 — **Secure**
Working at a solid Foundation level. The next step is the grade 5 skills: quadratics, reverse percentages and gradients.

18–20 — **Strong**
Very secure at Foundation level. Try the Higher quiz to see whether the Higher tier is within reach.

Send us your score

Go to **jratutors.co.uk**, tap **Sign up**, choose **GCSE Maths — Foundation** and type your score in the message box (for example: "Scored 14/20"). If you remember which questions you missed, add those too. We'll reply within 24 hours with what to work on next.

This quiz was written by JRA Tutors for practice. It is a guide to your level, not an official assessment. A free 15-minute diagnostic call gives a fuller picture.