



## 11 Plus Exam Maths Primer (Paper 1)

Only allow 30 minutes to complete this test

Calculators are not allowed

1. Subtract 20.7 from 26.8 and add 19.5
2.  $14.5 - (7 - 4 + 6.5 - 1.22)$
3. Find the product of 1.023 and 27.5
4.  $949.7 \times 0.719$
5.  $488 \div 100$
6. Divide 9.594 by 4.1
7. Add 6 to the difference of 5.75 and 2.226
8.  $8.82 \div (4.68 - 1.08)$
9. Find the H.C.F. of 72, 12 and 102
10. Find the L.C.M of 14, 15 and 16
11. Express 392 as a product of its primes
12.  $9^2 - 4^3$
13.  $10^3 \times 8^2 \div 2^3$
14.  $(0.8)^3$
15. Find the square root of 361
16.  $(\frac{3}{4})^3$
17. Express 5% as a fraction
18. Express 222% as a decimal
19.  $\frac{1}{5} + \frac{3}{4}$
20.  $3\frac{2}{5} + 2\frac{3}{7}$
21.  $5\frac{2}{9} \times 12$
22.  $1\frac{2}{7} \div 3\frac{1}{2}$
23.  $9\frac{3}{8} + 3\frac{1}{2} - 1\frac{2}{7}$
24. Arrange the following numbers starting with the smallest: 3.58, 3.78, 3.5, 3.87
25. Arrange the following numbers starting with the smallest: 0.4, 39%,  $\frac{1}{5}$ , 0.212
26. Find 72% of £4575
27. Find  $\frac{4}{7}$  of 343km
28. Decrease £150 by 27%
29. Increase 142 by 42.7%
30. A man brought a car for £8000 and sold it for £6200. What was his percentage loss?
31. Last year, a tuition centre had 40 students. This summer, the same tuition centre has 68 students. What was the percentage increase in membership?
32. 7 buses are needed to take 343 pupils on a school trip. How many buses would be needed to take an extra 200 students on the trip?
33. What is the price of 12 tractors if the 5 cost £63750?
34. Share £850 in the ratio of 3 : 2
35. Two trams have a mass in the ratio of 13 : 6. The lighter tram weighed 48 tonnes. How much did the heavier one weigh?



## How well did you do?

You want to aim for a score of 30 out of 35 and above. The answers have been provided below for you so that you can mark the exam paper.

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1	25.6		13	8000		25	$\frac{1}{5}$ , 0.212, 39%, 0.4
2	6.22		14	0.512		26	£3,294
3	28.1325		15	19		27	196
4	682.8343		16	$\frac{27}{64}$		28	£109.50
5	4.88		17	$\frac{1}{20}$		29	202.634
6	2.34		18	2.22		30	22.5%
7	9.524		19	$\frac{19}{20}$		31	70%
8	2.45		20	$5\frac{29}{35}$		32	12 buses
9	6		21	$62\frac{2}{3}$		33	£153,000
10	1680		22	$\frac{18}{49}$		34	£510 : £340
11	$2^3 \times 7^2$		23	$11\frac{33}{56}$		35	104 tonnes
12	17		24	3.5, 3.58, 3.78, 3.87			