



11+ Word Problems Worksheet — Mixed Ability

**Suitable for GL, Independent Schools, and
Grammar School Preparation**

SECTION A — Core Ratio Skills (1–6)

1. A box contains 48 pencils. If 12 are used, how many remain?

2. A student reads 35 pages each day. How many pages will they read in 6 days?

3. A packet has 120 sweets. $\frac{1}{3}$ are eaten. How many sweets are left?

4. A shop sells apples at £0.45 each. How much do 8 apples cost?

5. A jug holds 2 litres of juice. If you pour out 750 ml, how much is left?

6. A toy costs £18. A second toy costs £7 more. How much does the second toy cost?

SECTION B — Fractions & Percentages (7–10)

7. A class has 30 students. 40% are boys. How many boys are there?

8. A number is increased by 25% to become 75. What was the original number?

9. A bag contains 60 marbles. $\frac{2}{5}$ are red. How many red marbles are there?

10. A book has 240 pages. A student has read $\frac{5}{8}$ of it. How many pages have they read?

SECTION C — Ratio & Proportion (11–15)

11. A recipe uses flour and sugar in the ratio 3:2. If you use 18 cups of flour, how many cups of sugar do you need?

12. A map scale shows 1 cm represents 8 km. How many km does 5 cm represent?

13. A class has boys and girls in the ratio 4:5. If there are 36 girls, how many boys are there?

14. A model car is built at a scale of 1:30. If the real car is 4.5 m long, how long is the model?

15. A rectangle's sides are in the ratio 7:3. If the longer side is 35 cm, what is the shorter side?

SECTION D — Higher-Ability Multi-Step Reasoning (16–20)

16. A number is doubled, then 15 is added. The final result is 71. What was the original number?

17. A shop reduces a jacket by 20%. The sale price is £64. What was the original price?

18. A train travels 90 km each hour. How far does it travel in 2.5 hours?

19. A box contains red, blue, and green counters in the ratio 2:3:5. If there are 100 counters in total, how many are green?

20. A number is divided by 6, then increased by 14, giving 29. What was the original number?

ANSWERS

Question Numbers	Answers	Question Numbers	Answers
1	36	11	12 cups
2	210	12	40 km
3	80	13	32 boys
4	£3.60	14	15 cm
5	1.25 litres	15	15 cm
6	£25	16	28
7	12 boys	17	£80
8	60	18	225 km
9	24	19	50
10	150 pages	20	90