



11+ Mental Maths Drill Pack

Test your skills • Challenge yourself • Build confidence

Suitable for GL, Independent Schools, and
Grammar School Preparation

ACUMEN TEACH

FREE 11+ MENTAL MATHS DRILL PACK

20 Questions · Mixed Topics · Speed and Accuracy

Sharpen your number skills. Improve mental calculation. Build confidence for the 11+.

Suggested time: 15 minutes

Total marks: 20

Equipment: No calculator needed

Name: _____

Date: _____

Welcome to Your Practice Pack

Mental maths is an important part of 11+ preparation. Being able to calculate accurately without relying on written methods can help pupils work more efficiently and approach unfamiliar questions with confidence.

This pack contains 20 questions covering essential mental maths skills, including:

- Addition, subtraction, multiplication and division
- Times tables and number facts
- Fractions and percentages
- Decimals
- Metric conversions
- Time and money
- Number reasoning

The questions start with straightforward calculations and gradually become more challenging.

BEFORE YOU BEGIN

1. Set a timer for 15 minutes.
2. Try to answer each question mentally.
3. Choose ONE answer from A, B, C or D.
4. If a question is difficult, move on and return to it later.
5. Do not check the answers until you have finished.

Your goal: Aim for both speed and accuracy. If you cannot finish within 15 minutes, complete the remaining questions and use your score to identify what to practise next.

Section 1 — Mental Maths Questions

20 questions · 1 mark per question

Question 1 — Mental Addition

Calculate:

$$68 + 57 = ?$$

- A. 115
- B. 125
- C. 135
- D. 145

Question 2 — Mental Subtraction

Calculate:

$$200 - 86 = ?$$

- A. 104
- B. 116
- C. 114
- D. 124

Question 3 — Times Tables

Calculate:

$$14 \times 6 = ?$$

- A. 74
- B. 86
- C. 94
- D. 84

Question 4 — Division Facts

Calculate:

$$144 \div 12 = ?$$

- A. 12
- B. 10
- C. 14
- D. 11

Question 5 — Percentages

What is 25% of 96?

- A. 18
- B. 24
- C. 32
- D. 36

Question 6 — Finding 10%

What is 10% of 370?

- A. 3.7
- B. 73
- C. 37
- D. 47

Question 7 — Fractions Of Amounts

What is $\frac{3}{4}$ of 52?

- A. 39
- B. 36
- C. 42
- D. 48

Question 8 — Decimal Addition

Calculate:

$$2.5 + 3.75 = ?$$

- A. 5.25
- B. 6.15
- C. 6.5
- D. 6.25

Question 9 — Decimal Subtraction

Calculate:

$$8.4 - 2.65 = ?$$

- A. 5.65
- B. 5.75
- C. 6.25
- D. 5.85

QUESTION 10 — MULTIPLYING DECIMALS

Calculate:

$$0.6 \times 70 = ?$$

- A. 4.2
- B. 24
- C. 42
- D. 420

Question 11 — Multiplication Strategies

Calculate:

$$15 \times 12 = ?$$

- A. 180
- B. 160
- C. 170
- D. 190

Question 12 — Multiplying By 99

Calculate:

$$99 \times 7 = ?$$

- A. 683
- B. 697
- C. 703
- D. 693

Question 13 — Division

Calculate:

$$360 \div 8 = ?$$

- A. 40
- B. 45
- C. 50
- D. 55

Question 14 — Fractions Of Amounts

What is $\frac{1}{5}$ of 135?

- A. 25
- B. 30
- C. 27
- D. 35

Question 15 — Percentage Calculation

What is 35% of 200?

- A. 70
- B. 60
- C. 75
- D. 80

Question 16 — Dividing Decimals

Calculate:

$$4.8 \div 0.6 = ?$$

- A. 0.8
- B. 6
- C. 7
- D. 8

Question 17 — Metric Conversions

Convert 2.4 metres into centimetres.

- A. 24 cm
- B. 240 cm
- C. 2,400 cm
- D. 204 cm

Question 18 — Time Calculation

A lesson begins at 10:35 am and finishes at 11:20 am.

How long is the lesson?

- A. 35 minutes
- B. 40 minutes
- C. 45 minutes
- D. 55 minutes

Question 19 — Money

Three pens cost £1.20 each.

You pay with a £5 note. How much change should you receive?

- A. £1.40
- B. £1.20
- C. £1.60
- D. £2.40

Question 20 — Mixed Operations

Calculate:

$$48 \div 6 + 7 \times 3 = ?$$

- A. 45
- B. 56
- C. 29
- D. 32

Section 2 — Your Answer Sheet

Write the letter of your chosen answer beside each question.

Question	Answer	Question	Answer
1		11	
2		12	
3		13	
4		14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

My final score: _____ / 20

Time taken: _____ minutes

REFLECT ON YOUR PERFORMANCE

Tick the statement that best describes your experience.

☐ I completed all 20 questions within 15 minutes.

☐ I answered most questions correctly but need more speed.

☐ I worked quickly but made some calculation errors.

Keep your score so you can compare your progress when you complete another practice pack.

STOP — CHECK YOUR ANSWERS ONLY AFTER FINISHING

Have you answered all 20 questions?

Take a moment to check your answer sheet. When you are ready, continue to the worked solutions.

Section 3 — Fully Worked Solutions

Question 1 — Mental Addition

Correct answer: B — 125

Calculate $68 + 57$.

Split 57 into 50 and 7.

$$68 + 50 = 118$$

$$118 + 7 = 125$$

Final answer: 125

Mental maths tip: Add the tens first, then add the remaining units.

Question 2 — Mental Subtraction

Correct answer: C — 114

Calculate $200 - 86$.

First subtract 80:

$$200 - 80 = 120$$

Then subtract 6:

$$120 - 6 = 114$$

Final answer: 114

Mental maths tip: Splitting a number into tens and units can make subtraction easier.

Question 3 — Times Tables

Correct answer: D — 84

Calculate 14×6 .

Split 14 into 10 and 4.

$$10 \times 6 = 60$$

$$4 \times 6 = 24$$

Add the results:

$$60 + 24 = 84$$

Final answer: 84

Mental maths tip: Break a larger multiplication into two easier calculations.

Question 4 — Division Facts

Correct answer: A — 12

Calculate $144 \div 12$.

Think of the related multiplication:

$$12 \times 12 = 144$$

Therefore:

$$144 \div 12 = 12$$

Final answer: 12

Mental maths tip: Knowing your multiplication tables makes division much quicker.

Question 5 — Percentages

Correct answer: B — 24

Find 25% of 96.

25% is the same as one quarter.

Divide 96 by 4:

$$96 \div 4 = 24$$

Final answer: 24

Mental maths tip:

10% means divide by 10.

25% means divide by 4.

50% means divide by 2.

Question 6 — Finding 10%

Correct answer: C — 37

Find 10% of 370.

To find 10%, divide by 10:

$$370 \div 10 = 37$$

Final answer: 37

Mental maths tip: Dividing a number by 10 moves its digits one place to the right relative to the decimal point.

Question 7 — Fractions Of Amounts

Correct answer: A — 39

Find $\frac{3}{4}$ of 52.

First divide by the denominator:

$$52 \div 4 = 13$$

Then multiply by the numerator:

$$13 \times 3 = 39$$

Final answer: 39

Mental maths tip: Divide first, then multiply when finding a fraction of an amount.

Question 8 — Decimal Addition

Correct answer: D — 6.25

Calculate $2.5 + 3.75$.

Rewrite 2.5 as 2.50.

$$2.50 + 3.75 = 6.25$$

Final answer: 6.25

Mental maths tip: You can add decimal numbers more confidently by imagining the decimal places lined up.

Question 9 — Decimal Subtraction

Correct answer: B — 5.75

Calculate $8.4 - 2.65$.

Rewrite 8.4 as 8.40.

$$8.40 - 2.65 = 5.75$$

Final answer: 5.75

Mental maths tip: You can also count upwards from 2.65 to 8.40, but lining up the decimal places is a reliable way to check the result.

Question 10 — Multiplying Decimals

Correct answer: C — 42

Calculate 0.6×70 .

First calculate:

$$6 \times 70 = 420$$

Since 0.6 is one tenth of 6, the answer must be one tenth of 420.

$$420 \div 10 = 42$$

Final answer: 42

Mental maths tip: Use a related whole-number calculation, then adjust the answer to account for the decimal.

Question 11 — Multiplication Strategies

Correct answer: A — 180

Calculate 15×12 .

Split 12 into 10 and 2.

$$15 \times 10 = 150$$

$$15 \times 2 = 30$$

Add the results:

$$150 + 30 = 180$$

Final answer: 180

Mental maths tip: Multiplying by 12 is often easier when you multiply by 10 and then add twice the original number.

Question 12 — Multiplying By 99

Correct answer: D — 693

Calculate 99×7 .

Think of 99 as $100 - 1$.

$$100 \times 7 = 700$$

Subtract one group of 7:

$$700 - 7 = 693$$

Final answer: 693

Mental maths tip: Multiply by 100 and subtract one copy of the number.

Question 13 — Division

Correct answer: B — 45

Calculate $360 \div 8$.

Think of 360 as 36 tens.

$$36 \div 8 = 4.5$$

Therefore:

$$360 \div 8 = 45$$

You can also check using multiplication:

$$45 \times 8 = 360$$

Final answer: 45

Mental maths tip: Use known multiplication facts to check your division.

Question 14 — Fractions Of Amounts

Correct answer: C — 27

Find $\frac{1}{5}$ of 135.

Divide by the denominator:

$$135 \div 5 = 27$$

Final answer: 27

Mental maths tip: To find one fifth of a number, divide it by 5.

Question 15 — Percentage Calculation

Correct answer: A — 70

Find 35% of 200.

First find 10%:

$$200 \div 10 = 20$$

So 30% is:

$$20 \times 3 = 60$$

Next find 5%, which is half of 10%:

$$20 \div 2 = 10$$

Add the two percentages:

$$60 + 10 = 70$$

Final answer: 70

Mental maths tip: Break less familiar percentages into smaller percentages that are easier to calculate.

Question 16 — Dividing Decimals

Correct answer: D — 8

Calculate $4.8 \div 0.6$.

Multiply both numbers by 10 to remove the decimals:

$$4.8 \div 0.6 = 48 \div 6$$

Now calculate:

$$48 \div 6 = 8$$

Final answer: 8

Mental maths tip: Multiplying both numbers by the same amount keeps the division answer unchanged and can make the calculation simpler.

Question 17 — Metric Conversions

Correct answer: B — 240 cm

Convert 2.4 metres into centimetres.

There are 100 centimetres in 1 metre.

Therefore:

$$2.4 \times 100 = 240$$

Final answer: 240 cm

Mental maths tip: Converting metres to centimetres means multiplying by 100.

Question 18 — Time Calculation

Correct answer: C — 45 minutes

The lesson begins at 10:35 am and finishes at 11:20 am.

From 10:35 am to 11:00 am is 25 minutes.

From 11:00 am to 11:20 am is 20 minutes.

Add the intervals:

$$25 + 20 = 45 \text{ minutes}$$

Final answer: 45 minutes

Mental maths tip: Count to the next hour first, then add the remaining minutes.

Question 19 — Money

Correct answer: A — £1.40

Three pens cost £1.20 each.

First calculate the total cost:

$$£1.20 \times 3 = £3.60$$

Subtract this from £5.00:

$$£5.00 - £3.60 = £1.40$$

Final answer: £1.40

Mental maths tip: Calculate the total cost before finding the change.

Question 20 — Mixed Operations

Correct answer: C — 29

Calculate:

$$48 \div 6 + 7 \times 3$$

Complete division and multiplication before addition.

First:

$$48 \div 6 = 8$$

Next:

$$7 \times 3 = 21$$

Finally:

$$8 + 21 = 29$$

Final answer: 29

Mental maths tip: Multiplication and division must be completed before addition and subtraction.

SECTION 4 — QUICK ANSWER KEY

1. B — 125
2. C — 114
3. D — 84
4. A — 12
5. B — 24
6. C — 37
7. A — 39
8. D — 6.25
9. B — 5.75
10. C — 42
11. A — 180
12. D — 693
13. B — 45
14. C — 27
15. A — 70
16. D — 8
17. B — 240 cm
18. C — 45 minutes
19. A — £1.40
20. C — 29

Make Your Next Practice Session Count

Mental maths improves through regular practice. Encourage your child to revisit any questions they found difficult and try the same calculation again using a different mental strategy.

Rather than focusing only on speed, aim to build a combination of accuracy, confidence and efficient methods.

WANT TO DEVELOP YOUR SKILLS FURTHER?

At Acumen Teach, our additional 11+ revision guides and practice resources can help pupils strengthen individual maths topics, develop problem-solving strategies and prepare for a wider range of exam-style questions.

Explore more resources at:

<https://www.acumen-teach.co.uk/>

Acumen Teach — supporting confident learning, one step at a time.

END OF PRACTICE PACK