



Maths Paper 1: answer guide

Warm-up level · 20 questions · 20 minutes · Year 2 (7+ entry)



PrimaryTools

How to mark

- Give 1 mark for each correct answer. There are no half marks.
- Use the answer key below, then read the explanation and tip for every question your child got wrong – and for any they guessed.
- Fill in the topic table at the end. A pattern (for example, losing marks on several questions of one type) tells you what to practise next.

At this age, talking through a wrong answer together is worth more than the score. Ask your child to explain how they worked it out before you look at the tip.

Answer key

Q	Answer	Q	Answer	Q	Answer	Q	Answer	Q	Answer
1	B 16	5	B 20	9	B 25	13	B 6	17	C 35p
2	D 87	6	D $\frac{3}{4}$	10	D 5	14	A 15 cm	18	A 12:45
3	A half past 3	7	A 57p	11	A 6	15	D 5	19	D 70
4	C 27	8	C 15	12	C 12	16	B 60	20	C 18

What the score means

Score	What it suggests
18-20	Secure at warm-up level. Move on to the standard papers (4-8).
14-17	A good start. Read the tips for the questions missed, then try the next paper.
10-13	Getting there. Use the topic table to choose one or two topics to practise before the next paper.
0-9	Some foundations need work. Practise the topics without a timer first, then come back to timed papers.

This is a warm-up paper, so scores will usually be higher than on the standard and stretch papers. Scores on practice papers are a guide only – they don't predict a pass mark, which varies by area and year.



Question by question

Each answer shows how to work it out, and a **Next time** tip aimed at the most common mistake.

Question 1 · Answer B: 16

Addition & subtraction – Number bonds

What is $9 + 7$?

$9 + 7 = 16$. A quick way: $9 + 1 = 10$, then add the other 6 to make 16.

Next time: Make a ten first. Take 1 from the 7 to turn 9 into 10, then add what's left.

Question 2 · Answer D: 87

Number & place value – Comparing numbers

Which number is the largest?

Look at the tens first. 87 and 81 both have 8 tens, more than 78 and 69. Then compare ones: 7 is more than 1, so 87 is largest.

Next time: Compare the tens digit first, and only look at the ones if the tens are the same. 78 and 87 use the same digits – the order matters.

Question 3 · Answer A: half past 3

Measurement – Telling the time

What time does the clock show?

The long minute hand points to 6, which means half past. The short hour hand is halfway between 3 and 4, so it is half past 3.

Next time: Find the short hand first – it tells you the hour. 'Half past 6' comes from reading the long hand as the hour.

Question 4 · Answer C: 27

Addition & subtraction – Subtracting 2-digit numbers

Work out $42 - 15$.

Count on from 15: $15 \rightarrow 20$ is 5, $20 \rightarrow 40$ is 20, $40 \rightarrow 42$ is 2. $5 + 20 + 2 = 27$.

Next time: 33 comes from taking the smaller ones digit from the bigger one ($5 - 2$). Check by adding: $27 + 15$ should make 42.

Question 5 · Answer B: 20

Multiplication & division – Times tables (5s)

What is 5×4 ?

Count in fives four times: 5, 10, 15, 20. So $5 \times 4 = 20$.

Next time: 9 is $5 + 4$. The $\times$ sign means 'lots of' – say it as '4 lots of 5' and count in fives.



Question 6 · Answer D: $\frac{3}{4}$

Fractions - Recognising fractions

What fraction of the shape is shaded?

The shape is split into 4 equal parts and 3 of them are shaded, so $\frac{3}{4}$ is shaded.

Next time: The bottom number is how many equal parts altogether. The top number is how many are shaded.

Question 7 · Answer A: 57p

Measurement - Money

How much money is here altogether?

Start with the biggest coins: $20p + 20p = 40p$, $+ 10p = 50p$, $+ 5p = 55p$, $+ 2p = 57p$.

Next time: Count the largest coins first, then count on. Point to each coin as you add it so none are missed.

Question 8 · Answer C: 15

Fractions - Halving

What is half of 30?

Half of 30 is 15, because $15 + 15 = 30$.

Next time: 60 is double, not half. Check a half by doubling your answer - you should get back to the start number.

Question 9 · Answer B: 25

Number & place value - Number patterns

What is the next number? 5, 10, 15, 20, ...

The numbers go up by 5 each time. $20 + 5 = 25$.

Next time: Work out the jump between each pair of numbers before choosing the next one.

Question 10 · Answer D: 5

Geometry - Properties of 2-D shapes

How many sides does this shape have?

The shape is a pentagon. It has 5 straight sides.

Next time: Put a small tick on each side as you count it, so you don't count any side twice.



Question 11 · Answer A: 6

Addition & subtraction – Missing numbers

What number goes in the box? $24 + \square = 30$

Count on from 24 to 30: 25, 26, 27, 28, 29, 30. That's 6 jumps, so the missing number is 6.

Next time: 54 comes from adding 24 and 30. The box is the jump from 24 to 30 – count on or work out $30 - 24$.

Question 12 · Answer C: 12

Problem solving – One-step word problems

Sam has 18 stickers. He gives 6 to his sister. How many stickers does Sam have left?

Giving away means taking away: $18 - 6 = 12$.

Next time: Decide whether the story makes the number bigger or smaller before you work it out. 24 adds instead of takes away.

Question 13 · Answer B: 6

Multiplication & division – Division facts

What is $30 \div 5$?

How many fives make 30? 5, 10, 15, 20, 25, 30 – that's 6 fives, so $30 \div 5 = 6$.

Next time: Turn a division into a times-table question: '5 times what makes 30?'

Question 14 · Answer A: 15 cm

Measurement – Estimating length

Which is the best guess for the length of a pencil?

A pencil is about as long as a ruler's 15 cm mark. 15 m is longer than a classroom, and 15 km is a long car journey.

Next time: Learn a few 'benchmarks': a finger is about 1 cm wide, a door is about 2 m tall.

Question 15 · Answer D: 5

Statistics – Reading a bar chart

Children chose their favourite fruit. How many more children chose grapes than bananas?

Grapes reach 9 and bananas reach 4. $9 - 4 = 5$ more children chose grapes.

Next time: 'How many more' means find the difference – subtract. 13 comes from adding the two bars together.



Question 16 · Answer B: 60

Number & place value – Tens and ones

What is the value of the 6 in 64?

64 is 6 tens and 4 ones. 6 tens is 60.

Next time: Say the number in parts: '64 is 60 and 4'. The first digit of a 2-digit number tells you how many tens.

Question 17 · Answer C: 35p

Measurement – Money and change

A toy costs 65p. Mia pays with £1. How much change does she get?

£1 is 100p. Count on from 65p: 65p → 70p is 5p, 70p → 100p is 30p. 5p + 30p = 35p.

Next time: Change a pound into 100p first, then count on from the price to 100.

Question 18 · Answer A: 12:45

Measurement – Time intervals

Lunch starts at 12 o'clock and lasts 45 minutes. What time does it end?

45 minutes after 12 o'clock is quarter to 1, which is written 12:45.

Next time: 45 minutes is less than an hour, so the hour can't change to 1 yet.

Question 19 · Answer D: 70

Multiplication & division – Doubling

What is double 35?

Double 30 is 60 and double 5 is 10. 60 + 10 = 70.

Next time: Split the number into tens and ones, double each part, then add them back together.

Question 20 · Answer C: 18

Problem solving – Working backwards

Ben thinks of a number. He adds 7 and gets 25. What was his number?

Undo the 'add 7' by taking 7 away: $25 - 7 = 18$. Check: $18 + 7 = 25$.

Next time: To go backwards, do the opposite: adding is undone by taking away. 32 comes from adding 7 again.



Topic table

Tick the questions your child got right and write the total for each topic. Topics where marks were lost are the ones to practise first.

Topic	Questions	Score	Skills tested
Addition & subtraction	1, 4, 11	/ 3	Number bonds; Subtracting 2-digit numbers; Missing numbers
Number & place value	2, 9, 16	/ 3	Comparing numbers; Number patterns; Tens and ones
Measurement	3, 7, 14, 17, 18	/ 5	Telling the time; Money; Estimating length; Money and change; Time intervals
Multiplication & division	5, 13, 19	/ 3	Times tables (5s); Division facts; Doubling
Fractions	6, 8	/ 2	Recognising fractions; Halving
Geometry	10	/ 1	Properties of 2-D shapes
Problem solving	12, 20	/ 2	One-step word problems; Working backwards
Statistics	15	/ 1	Reading a bar chart
Total		/ 20	

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