

# Answer section with parents' notes

## Key Stage 2 Ages 9–11

This eight-page section provides answers and explanatory notes to all the problems in this book, enabling you to assess your child's work.

Work through each page together and ensure that your child understands each maths problem. Point out any mistakes your child makes and correct the errors. Your child should use the methods of working out taught at his or her school. In addition to making corrections, it is very important to praise your child's efforts and achievements.

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### ★ Time problems

How many hours are there between 22:00 and 02:00?

22:00 to 00:00 = 2 hours  
00:00 to 02:00 = 2 hours  
2 + 2 = 4 hours

4 hours

Poppy met Blake at the Natural History Museum at 14:30. They spent three hours there. What time did they leave?

17:30

Chen's digital watch shows 11:10. It is, however, 26 minutes fast. Calculate the actual time at that moment.

10:44



Idris and Monica decided to visit the National Gallery in London. Monica arrived there at 16:05, whereas Idris arrived 40 minutes earlier. What time did Idris get there?

15:25

Marcel only understands the 24-hour system for telling the time. He wants to watch a football match. The television guide says the match begins at 1.30 p.m., but he doesn't understand what time that is. Can you help Marcel by telling him what 1.30 p.m. is in the 24-hour system?

13:30

Arya thinks 16:20 is the same time as 6.20 p.m. Can you help Arya by telling her what 16:20 really is in the 12-hour system?

4.20 p.m.

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Ensure that your child is familiar with the 24-hour system. Introduce her to the later times, such as 22:00 and 23:30, because she will not normally be awake at these hours and so will not see digital times on devices.

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### Roman numerals ★

Dakota read in her history book that the Great Fire of London happened in the year MDCLXVI. Help Dakota write the year in numbers.

1666

M = 1000, D = 500, C = 100,  
L = 50, X = 10, V = 5 and I = 1

1000 + 500 + 100 + 50 + 10 + 5 + 1  
= 1666

Using Roman numerals, write the number that is 10 more than each of these.

V

XV

VIII

XVIII

XLV

LV

Write each of these years using Roman numerals.

2014

MMXIV

2002

MMII

1918

MCMXVIII

A farmer counted his two flocks of sheep one morning. One flock had DXII sheep and the other had D. How many sheep does the farmer have altogether? Write your answer in Roman numerals.

MXII sheep



In her maths exam, Greta had to solve this sum and write the answer in Roman numerals. What should she have written?

MDI + MCL = MMDCLI

The year before last, the population of a small town was MDV. Last year, however, the population went down by DL. Calculate the new population of the town and write the answer in Roman numerals.

CMLV

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Some numbers can be written in more than one way with Roman numerals. For example, IV (4) can also be written as IIII. Also, when a smaller value precedes a larger value, as in IX (9), the smaller number is subtracted from the larger one.

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### ★ Money problems

The cost of laying a garden patio is £48 per square metre. If the area of the patio is 8 m<sup>2</sup>, what will be the total cost of laying it?

40 × 8 = 320  
8 × 8 = 64  
320 + 64 = 384

£384

Emerson's trip to France is going to cost him £660. He has, however, saved only a third of that amount so far. How much more money does Emerson need to save for his trip?

£440



Lauren participated in a sponsored run for her favourite charity. She asked people to sponsor her 50 p for every kilometre she runs. Ten people sponsored her and she raised a total of £70. How many kilometres did Lauren run?

14 km

Four different coins make a total of 82 p. What are the coins?

50 p

20 p

10 p

2 p

Each month, Scarlett puts away a quarter of her wage as savings. If she earns £1 600 a month, how much money does she spend?

£1 200

It costs Eddy £380 to get his car repaired at his local garage. A fifth of the cost is for new car parts and the rest goes towards labour charges. How much do the parts cost and how much does the labour cost?

Cost of parts £76

Cost of labour £304

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Including units in each step of the working out of a problem is useful when you need to convert from one unit to another, such as pounds to pence. Even if you don't use units in working out, always include them in your final answers.