Worked solutions

How to use this booklet. After marking, look up each question your child got wrong. Read the steps together, look at the picture, then check the "Watch out!" box: it shows the trap answer and why it is tempting. Then try a similar question from the practice pack for that topic.

English

1 How late was the bus when Ellie looked at her watch?

B **B: 9 minutes**

1. The bus was due at 6:15 and Ellie's watch said 6:24: that is 9 minutes.

2 What does the passage suggest about Sam while they wait?

D **D: He is cross and fed up.**

1. Sam kicks a puddle and has 'decided that this was the worst day of his life': he is cross and fed up.

3 "it would feel like forty years" (line 10). This means that

A **A: the walk would seem very long**

1. It is an exaggeration: the walk would feel much longer than it really is, with Sam complaining all the way.

4 Which two things would they pass on the walk home?

BE **B: a narrow bridge and E: a farm**

1. The walk home goes 'past the farm with the barking dogs, over the narrow bridge and up the hill'.

5 What were the "two yellow eyes" (line 11)?

A **A: the lights of the bus**

1 The 'eyes' grow brighter with 'a low rumble', and Ellie says 'It's only the bus': they are the bus's headlights.

6 What does the driver mean when he says the fog is "as thick as porridge"?

C **C: It is very hard to see through.**

1 The driver is explaining why he is late: the fog is so thick it is hard to see through.

7 Which sentence is punctuated correctly?

B **B: "Wait for me!" shouted Sam.**

1 The exclamation mark goes inside the inverted commas, and no comma is needed after it.

8 Choose the word that completes the sentence and is spelt correctly. Ellie was _____ that the bus would never come.

E **E: certain**

1 certain: c-e-r-t-a-i-n. "Curtain" is a different word.

Maths

1 What is 44 × 6?

D **D: 264**

1. 40 × 6 = 240 and 4 × 6 = 24.
2. Total 264.

	40	4
6	40 × 6 = 240	4 × 6 = 24

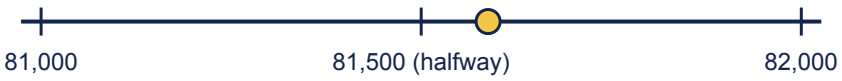
240 + 24 = 264

Watch out! Be careful with 274: it is 10 too many, so check how you added the two parts.

2 Round 81,588 to the nearest thousand.

D **D: 82,000**

1. To round to the nearest thousand, look at the hundreds digit: 5 or more rounds up, 4 or less rounds down.
2. 81,588 rounds to 82,000.



Watch out! Be careful with 81,000: you get that if you round the wrong way.

3 Hannah buys a magazine for £2.85, a carton of juice for 79p and an apple for 60p. Hannah pays with a £5 note. How much change should Hannah get?

B **B: 76p**

1. Total cost £4.24.
2. Change = £5.00 − £4.24 = 76p.

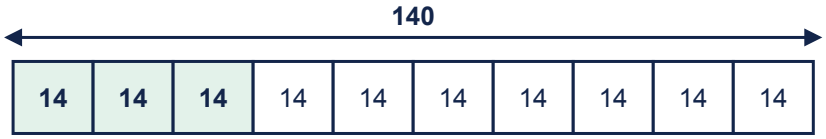


Watch out! Be careful with £4.24: you get that if you give the total instead of change.

4 A class collects 140 bottle tops. They use 3/10 of them for an art project. How many bottle tops do they use?

C **C: 42**

1. 140 ÷ 10 = 14, then × 3 = 42.

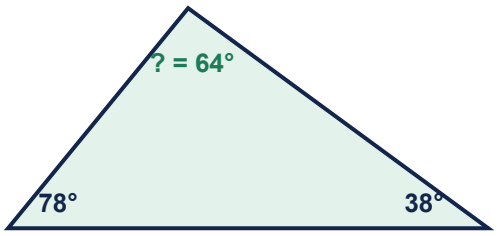


Watch out! Be careful with 14: you get that if you find one part only.

5 Two angles in a triangle are 78° and 38°. What is the third angle?

B **B: 64°**

1. Angles in a triangle add up to 180°.
2. 180° − 78° − 38° = 64°.



All three angles add up to 180°

Watch out! Be careful with 54°: you get that if you make a slip in the tens when subtracting.

6 Which two of these numbers are factors of 96?

AE **A: 6 and E: 48**

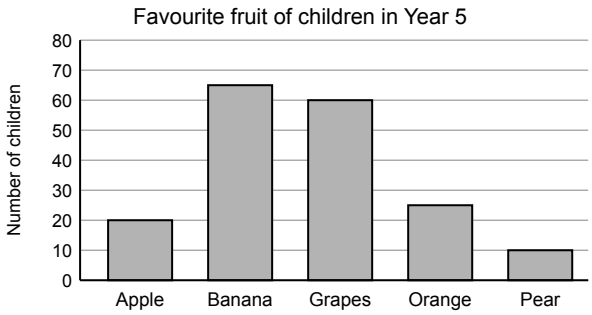
1. 48 × 2 = 96 and 6 × 16 = 96.

1 × 96 = 96	**2 × 48** = 96	**3 × 32** = 96	**4 × 24** = 96	**6 × 16** = 96	**8 × 12** = 96

7 How many more children chose grapes than orange?

B **B: 35**

1. Grapes = 60, Orange = 25.
2. 60 − 25 = 35.



Watch out! Be careful with 40: you get that if you misread a half-way bar.

Verbal reasoning

1 Find two words, one from each group, that join together to make a new word. The word from the first group comes first. Choose one answer from each group.

AE **A: pop and E: corn**

1. pop + corn = popcorn.

2 Use the code to answer the question. If the code for CASE is BBRF, what is the code for RAIN?

B **B: QBHO**

1. Letters move alternately back 1 and forward 1 in the alphabet.

3 Find the number that continues the series in the most sensible way. 3, 6, 12, 24, 48, (?)

C **C: 96**

1. The rule is: double each time.
2. The next number is 96.

4 Find the next pair of letters in the series. Use the alphabet to help you. BP EQ HR KS (?)

D **D: NT**

1 The first letters move 3 each time; the second letters move +1 each time.

5 Read the information, then answer the question. Kai, Lily, Mo, Nell and Ollie finished a running race. Kai finished before Ollie. Kai finished straight after Lily. Ollie finished straight after Nell. Nell finished straight after Mo. Who finished second?

A **A: Kai**

1 The full order is Lily, Kai, Mo, Nell, Ollie.

6 Here are four words and three codes. The codes are not written in the same order as the words, and one code is missing. DART FOOT NOTE TREE 1992 3924 2644 What is the code for NOTE?

A **A: 3924**

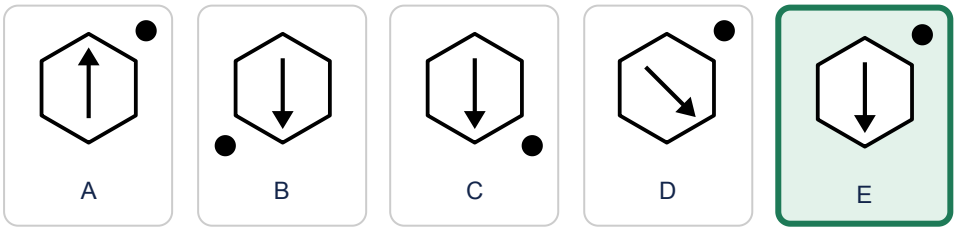
1 Match words that share letters with codes that share digits.

2 NOTE = 3924.

Non-verbal Reasoning

1 Which figure completes the series?

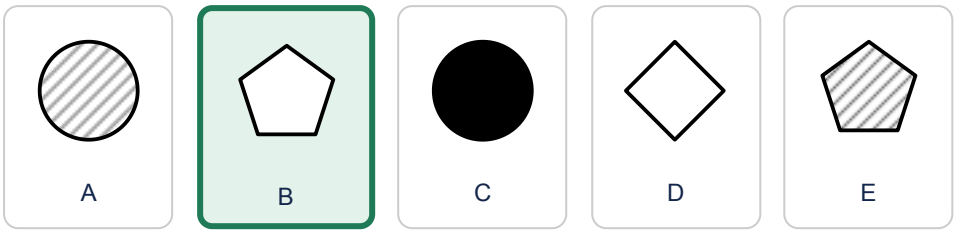
E **E**



1 The arrow turns 45° clockwise each time, the small shape moves one corner clockwise, and the shading alternates.

2 Which figure completes the grid?

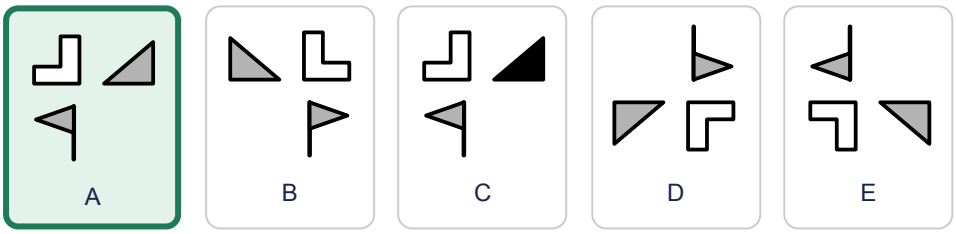
B **B**



1. Each row and each column has one of each shape and one of each kind of shading.
2. Find the shape and the shading that are missing from both the last row and the last column.

3 Which figure shows the reflection of the shape in the dashed mirror line?

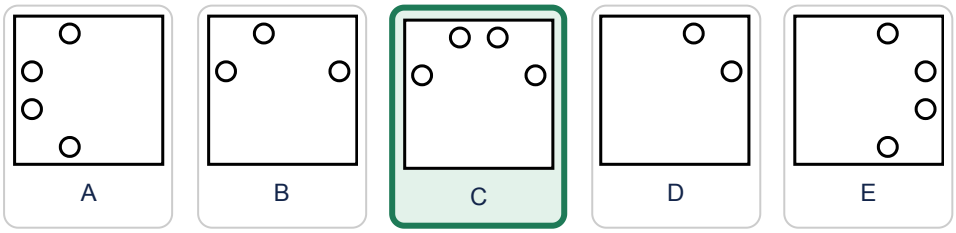
A **A**



1. Each part flips across the upright mirror line: what was on the left is now on the right, and shading stays the same.

4 A square of paper is folded and then holes are punched through it. Which figure shows the paper when it is unfolded?

C **C**



1. Every hole goes through two layers, so each punched hole makes two holes, mirrored across the fold line.
2. There are 4 holes when the paper is opened.

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