

Contents

Numeracy and Problem Solving	
Mixed Questions Test 1	4–5
Mixed Questions Test 2	6–7
Mixed Questions Test 3	8–9
Problem Solving Test 1	10–11
Problem Solving Test 2	12–13
Problem Solving Test 3	14–16
Problem Solving Test 4	17
Verbal Reasoning	
Comprehension Test 1	18–21
Comprehension Test 2	22–24
Comprehension Test 3	25–28
Cloze Wordbank Test 1	29–30
Cloze Wordbank Test 2	31
Cloze Wordbank Test 3	32
Cloze Wordbank Test 4	33
Antonyms: Write in the Word Test	34–35
Antonyms: Select the Word Test	36–37
Synonyms: Write in the Word Test	38–39
Synonyms: Select the Word Test	40–41
Shuffled Sentences Test 1	42–44
Shuffled Sentences Test 2	45–46
Non-Verbal Reasoning	
Mixed Test 1	47–53
Mixed Test 2	54–57
Mixed Test 3	58–62
Mixed Test 4	63–66
Answers	67–78
Score table	79

Guidance for Parents

The CEM (Durham University) 11+ Exam

CEM (The Centre for Evaluation and Monitoring) is part of Durham University. It is one of the two major bodies responsible for setting 11+ tests. Their tests are being used by an increasing number of selective schools in England.

The CEM exam consists of two papers and in each paper pupils are tested on their skills in verbal, non-verbal and numerical reasoning. Exams are separated into small, timed sections delivered by audio instructions.

It appears the content required for CEM exams changes from year to year, and the level at which pupils are tested ranges from county to county. Before sitting the exam, your child should be well prepared, with solid foundations built in the three core skills.

11 Plus Tutoring Academy

This book has been produced in partnership with 11 Plus Tutoring Academy.

11 Plus Tutoring Academy offers tuition and mock exams specifically for the Durham CEM 11+ exam in Gloucestershire, Buckinghamshire and other areas in the UK and overseas. They are one of the leading providers of tuition and mock exams for Durham CEM 11+ exams in the UK.

The Results Booster Book

The book focuses on the core skills needed for the CEM exam: verbal, non-verbal and numerical reasoning. It is divided into short, timed tests with CEM-style questions. The focus is on improving your child's awareness of working under timed conditions and includes time-management tips.

How and when to use the book

This book provides focused practice at the stage before your child sits mock tests either at home or with a specialist provider. We also publish practice test papers for the CEM 11+ exams, which include audio instructions that replicate the experience of the exam.

Visit www.collins.co.uk/letts11plus for the full range.

We suggest that your child writes the answers on a separate piece of paper when attempting this test for the first time, as you may want your child to complete this test again at a later date.

You should record your child's first attempt at each test in the table at the end of the book. At a later date, your child should repeat any section where the score was poor or if they were unable to finish.

The time allowed for each section is set to be challenging, but eventually manageable for your child. Depending on the amount of practice of timed tests which your child has completed prior to using this book, initially your child may find the tests difficult to complete. However, it is through practice of timed tests that pupils gain more confidence and become more time-aware. Writing answers on a separate piece of paper allows the tests to be re-used.

What your child will need:

A quiet place to do the tests

A clock/watch which is visible to your child

A piece of paper (on which to write the answers)

A pencil

Your child should not use a calculator for any of these papers.

Problem Solving Test 3

NO CALCULATORS ALLOWED IN TESTS



INSTRUCTIONS



You have 12 minutes to complete the following section.
You have 15 questions to complete within the time given.

Read each problem and select one answer from the following answer options A–E.

- 1 I need to arrive at the airport in New York by 8 pm and I am in London where the time is 5 hours ahead. The flight duration is 7 hours. Flights leave London hourly at 30 minutes past the hour.

Select the latest flight departure from the answer options below that I can get to arrive in New York by 8 pm at the latest, assuming no delays.

A	B	C	D	E
4.30 pm	6.30 pm	7.30 pm	5.30 pm	8.30 pm

- 2 A bath is being filled. The water comes from the tap into the bath at a rate of 2 litres every 10 seconds.

How long will it take to fill a bath containing 70 litres of water?

A	B	C	D	E
5 minutes 50 seconds	3 minutes 50 seconds	35 seconds	35 minutes	3.5 minutes

- 3 The petrol tank in my car shows I have 20 litres remaining at the start of my journey. The tank holds 80 litres when full.

What quantity of fuel remains after my journey, if my journey uses a quarter of a full tank of petrol?

A	B	C	D	E
$\frac{1}{4}$ litre	15 litres	5 litres	The tank is empty.	20 litres

- 4 Calculate the following.

What is the greatest number of 9s that can be taken away from 404?

A	B	C	D	E
45	46	43	44	50

5

Destination	Train 1	Train 2	Train 3	Train 4
Carterton	08:09	09:51	11:31	17:03
Evenlode	08:34	10:25	–	–
Burford	09:14	11:19	12:42	18:11
Naunton	09:27	–	12:51	–
Daylesford	10:21	12:11	–	–
Stow	11:16	13:03	14:19	19:09

Which train is the slowest (in time) between Carterton and Stow?

A	B	C	D	E
Train 1	Train 3	Train 2	Train 5	Train 4

- 6 What is the probability of rolling one dice and scoring more than 3?

A	B	C	D	E
2 chances in 6	1 chance in 6	3 chances in 6	4 chances in 6	6 chances in 6

- 7 $a + 4b = 8$

Find b , if $a = 4$:

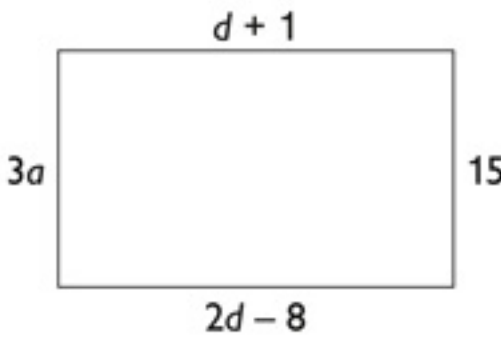
A	B	C	D	E
1	2	4	8	16

- 8 Find the expression for the n th term in the following sequence:

2, 3, 4, 5, 6...

A	B	C	D	E
$2n - 1$	$n - 1$	$2n$	7	$n + 1$

- 9 Look at the rectangle below, which shows the lengths of each side in centimetres.



Calculate the area of the rectangle.

A	B	C	D	E
15 cm^2	25 cm^2	150 cm^2	100 cm^2	125 cm^2

- 10 Solve the following equation to find the value of e :

$16 - e = 27$

A	B	C	D	E
11	-9	17	3	-11

Shuffled Sentences Test 1

TOP TIME MANAGEMENT TIPS

- Read the words carefully and try to work out the possible theme of the sentence quickly.
- Don't spend too much time on any one question as there may be a difficult question early on!
- Remember that you are searching for a word that does not fit in the sentence.
- Think about words which are often used together in phrases.



INSTRUCTIONS



You have 10 minutes to complete the following section.
You have 15 questions to complete within the time given.

EXAMPLE

The following sentence is shuffled and also contains one unnecessary word. Rearrange the sentence correctly in order to identify the unnecessary word.

threw into through ball bucket the I

A	B	C	D	E
threw	through	ball	the	I

The correct answer is B as 'through' does not fit in the sentence. The sentence should read, 'I threw the ball into the bucket.'

Each of these sentences is shuffled and contains one unnecessary word. Rearrange each sentence correctly in order to identify the unnecessary word from the answer options given.

- ① where to buy available Christmas year this rent or trees were

A	B	C	D	E
buy	to	rent	available	where

- ② and in there was a crisp packet the sky was not a cloud morning winter's it

A	B	C	D	E
morning	packet	crisp	sky	cloud

- ③ cleaner that likely need was it soon bin the emptying would

A	B	C	D	E
cleaner	soon	that	need	was

- ④ to tight required certain swing park spaces was in skill the of a unusually amount

A	B	C	D	E
amount	to	park	swing	tight

- ⑤ less party was kept matter for in a the weather the changed the promising minutes of and outlook garden

A	B	C	D	E
matter	kept	weather	changed	party

- ⑥ any his tolerated be longer behaviour he not could

A	B	C	D	E
his	longer	behaviour	could	he

- ⑦ object and fill the form of the texture sculptress the inspired deeply

A	B	C	D	E
object	inspired	the	fill	and

- ⑧ too the cushions area they entrance to seats decided draughty move as was

A	B	C	D	E
cushions	entrance	they	move	seats

- ⑨ were the juice number they by drinks a to served supermarket bar customers of delicious attracted the that

A	B	C	D	E
supermarket	they	juice	drinks	bar

- ⑩ starting fully exhausted full of the felt exercise woman programme her since and new energy revitalised

A	B	C	D	E
exhausted	revitalised	since	full	starting

- ⑪ for for for had they owned hose but house entertaining the some more years wanting space looking were now bigger somewhere

A	B	C	D	E
house	entertaining	hose	wanting	they

- ⑫ find hidden antiques of they search bargain frequented prices in fairs gems at

A	B	C	D	E
prices	fairs	frequented	search	find

- ⑬ instinct he and than gut happy is with followed the leader more outcome his

A	B	C	D	E
outcome	happy	followed	leader	his

Mixed Test 2

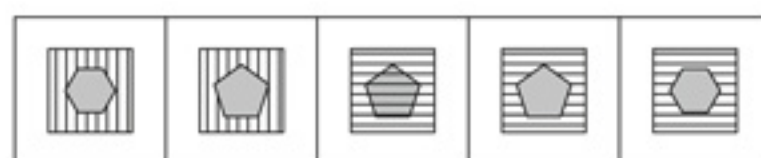
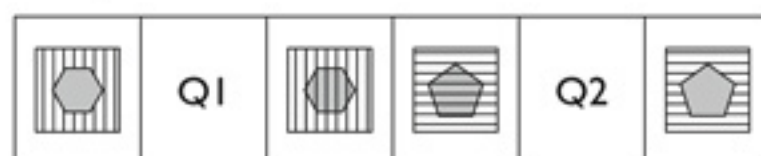


INSTRUCTIONS



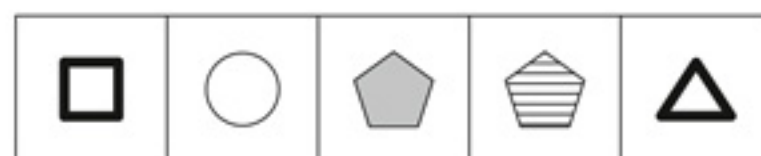
You have 7 minutes to complete the following section.
You have 15 questions to complete within the time given.

- ① + ② Select the correct pictures from the bottom row in order to finish the incomplete sequence on the top row. One picture should be chosen for Q1 and another picture for Q2.



A B C D E

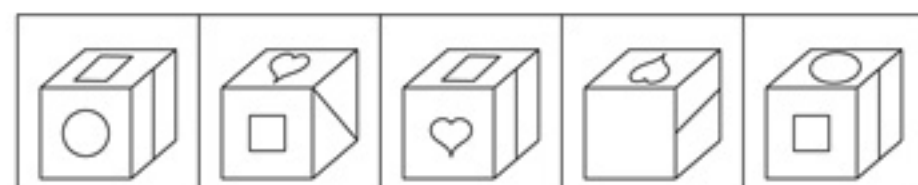
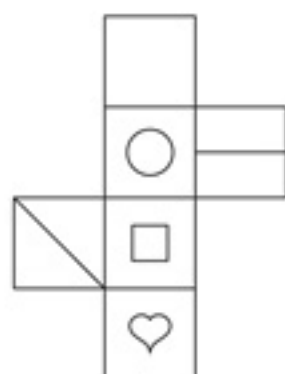
- ③ Look at the following patterns and identify the missing code for the pattern on the right.



BD CD AF AE

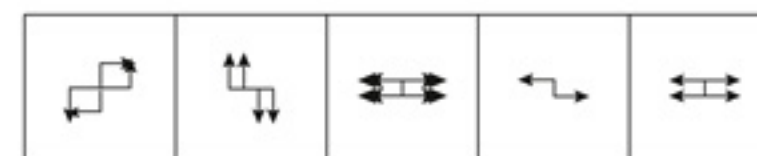
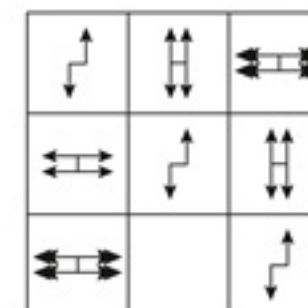
A: AD B: GF C: AE D: GD E: HF

- ④ Look at the cube net. Select the only cube that could be formed from the net below.



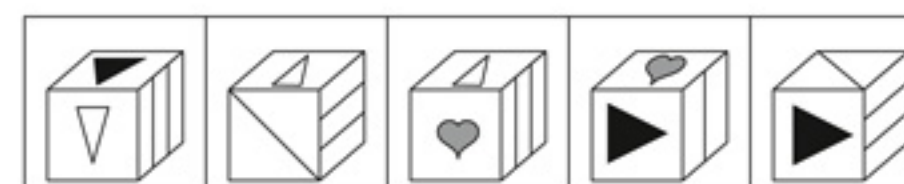
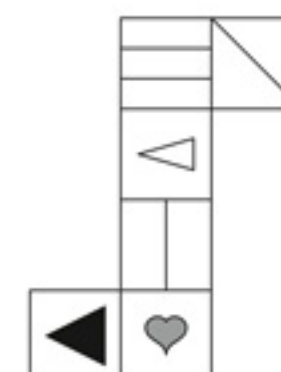
A B C D E

- ⑤ Select the pattern that completes the grid.



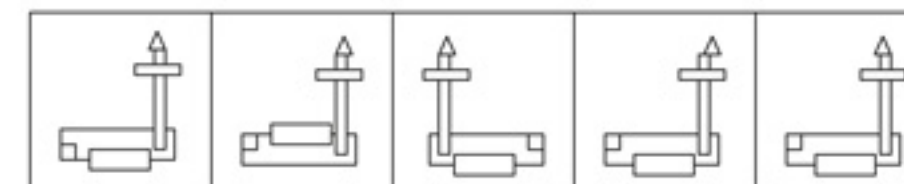
A B C D E

- ⑥ Look at the cube net. Select the only cube that could be formed from the net below.



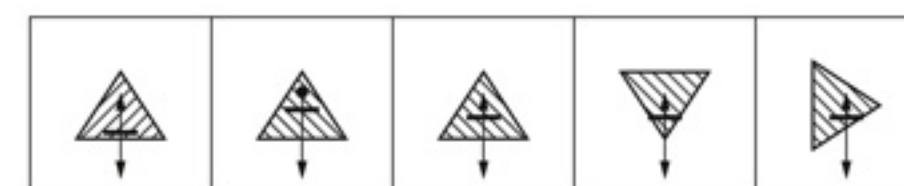
A B C D E

- ⑦ Select how the following shape or pattern would appear when reflected in the dashed line.



A B C D E

- ⑧ Select how the following shape or pattern would appear when reflected in the dashed line.



A B C D E