11+

Practice Test

Set A: Paper 2

Read the following:

Do not open this booklet or start the test until you are told to do so.

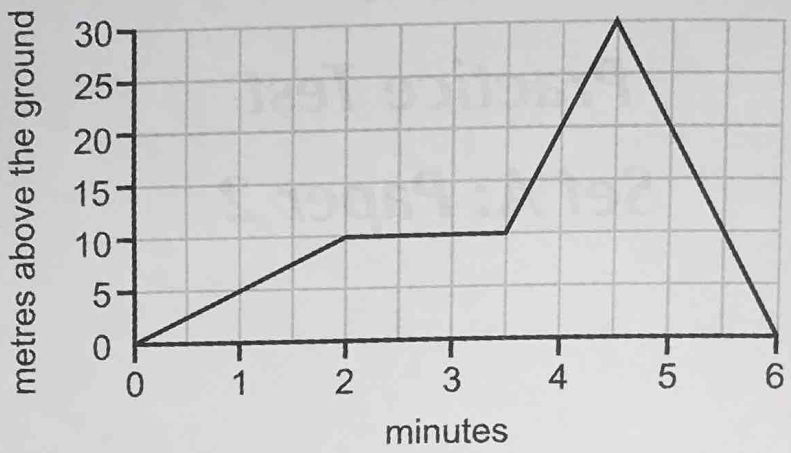
1. This test can be taken in either multiple-choice or write-in format.
2. If you are taking it as a multiple-choice test you should mark your answer to each question in pencil on the separate answer sheet. Mark the correct box quickly and neatly using a horizontal line.
3. If you are taking it as a write-in test you should write your answer to each question in pencil on the paper. Write your answer carefully in the space provided or, if there is a range of options, mark the correct box quickly and neatly using a horizontal line.
4. If you make a mistake, rub it out and mark your new answer clearly.
5. There are three sections in this test.
6. The time allowed for each section is given at the start of that section. You will have a total of 45 minutes to complete the timed sections of the test.
7. Each section includes examples showing you how to answer the questions. You may refer to these examples at any time as you work through the section.
8. Do as many questions as you can. For some questions you will be given a range of options — if you get stuck on one of these questions, choose the answer that you think is most likely to be correct, then move on to the next question. If you get stuck on a question for which no options are given, leave it and move on to the next question. If you have time at the end of the section, go back and have another go at the questions you could not answer.
9. You should do any rough working on a separate piece of paper.

Work carefully, but go as quickly as you can.

SECTION 1: NUMERICAL REASONING

READ THESE EXAMPLE QUESTIONS. YOU MAY RETURN TO THESE EXAMPLES AT ANY TIME AS YOU WORK THROUGH THIS SECTION.

A George draws a graph showing a flight by his remote-control model plane.



A1 How long did the flight last?

6 minutes

A2 How high was the plane after 4 minutes of flight?

2 0 m

A3 According to the graph, what was the plane doing between 3½ and 4½ minutes of flight?

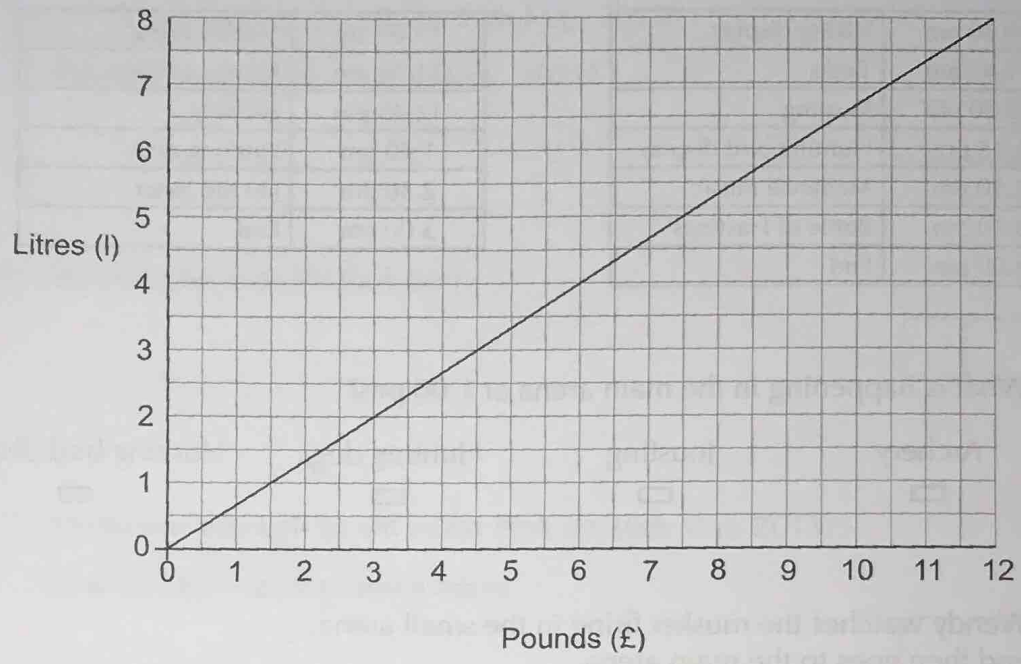
speeding up	rising	slowing down	falling
☐	■	☐	☐

WAIT UNTIL YOU ARE TOLD TO GO ON

YOU HAVE 25 MINUTES TO COMPLETE THIS SECTION

THERE ARE 8 MULTI-PART QUESTIONS IN THIS SECTION

1 This chart shows the cost of petrol.



a) What is the cost of 5 litres of petrol?

£ ☐☐.☐☐

b) How many litres can you buy for £6.00?

☐☐ litres

c) Use the graph to help you work out the cost of 40 litres of petrol.

£ ☐☐.☐☐

d) A van uses 1 litre to travel 12 miles.
How many litres does it use to travel 240 miles?

☐☐ litres

GO TO THE NEXT QUESTION

(2) Here is a timetable of the events at a local history display.

There are no pauses between events.

Main Arena

10.30 am	Viking display
11.45 am	Tanks
12.30 pm	Jousting
1.15 pm	Hunting bird display
2.30 pm	Medieval music
3.20 pm	Battle of Hastings
4.00 pm	End

Small Arena

11.00 am	Musket firing
11.30 am	Roman soldiers
12.45 pm	Archery
1.40 pm	Hunting dogs
2.30 pm	Joe the jester
3.00 pm	End

a) What is happening in the main arena at 1.00 pm?

Archery ☐ Jousting ☐ Hunting dogs ☐ Hunting bird display ☐

b) Wendy watches the musket firing in the small arena, and then goes to the main arena.

What is happening when she gets there?

Viking display ☐ Tanks ☐ Jousting ☐ Roman soldiers ☐

c) How long do the main arena events last for altogether?

☐ hour(s) and ☐☐ minutes

d) Wendy watches the "Hunting dogs" and then "Medieval music". How long do these events last altogether?

☐ hour(s) and ☐☐ minutes

3 Mr Pink and Mr Brown have the same birthday.
Both of them were born on 30th May but in different years.

a) Mr Pink was 48 years old on 30th May, 2013.

How old will he be on 30th May, 2021?

☐☐ years old

b) In what year was Mr Pink born?

☐☐☐☐

c) Mr Brown was half as old as Mr Pink on 30th May, 2013.

In what year was Mr Brown born?

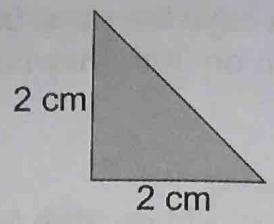
☐☐☐☐

d) What will be the year of Mr Brown's 100th birthday?

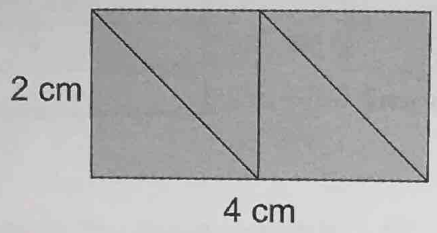
☐☐☐☐

GO TO THE NEXT QUESTION

4 This is a right-angled triangular tile:

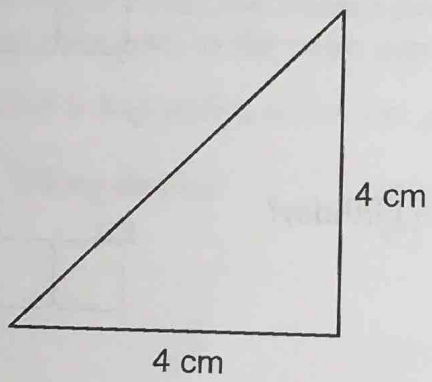


You can fit 4 of the tiles into a 4 cm by 2 cm rectangle, like this:



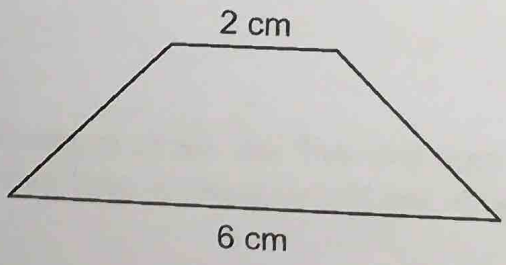
Work out how many tiles you can fit into each of these shapes:

a)



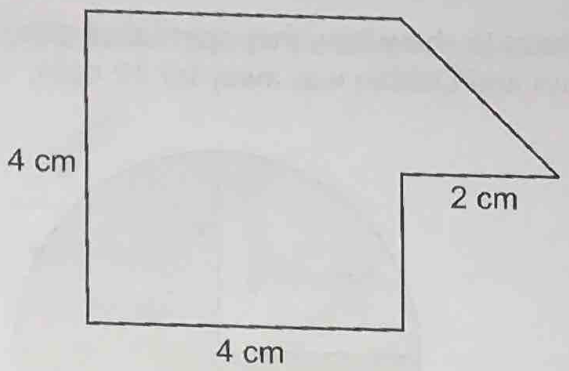
☐ tiles

b)



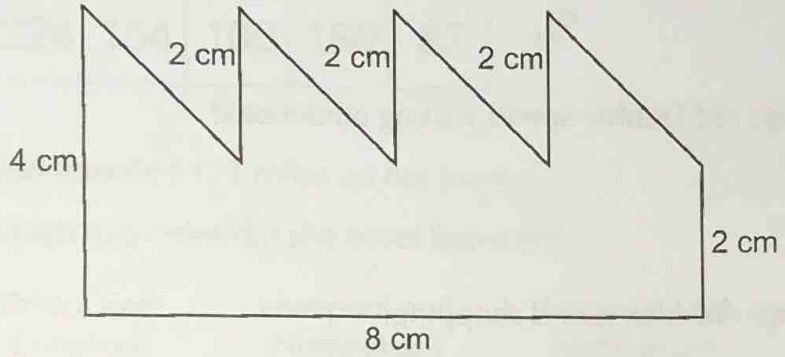
☐ tiles

c)



☐ tiles

d)



☐☐ tiles

GO TO THE NEXT QUESTION

5 Alex and Debbie have drawn pie charts to show how they spent their time on holiday. Alex was away for 6 days and Debbie was away for 12 days.

Alex

Debbie

a) How many days did Debbie spend visiting attractions?

☐ days

b) How many days did Alex spend shopping?

☐ days

c) Who spent more days on the beach?

Alex	Debbie	They spent the same number of days on the beach
☐	☐	☐

6 The table below shows the distances between six cities in miles.

Bristol	Cambridge	Liverpool	Norwich	Nottingham	York
170					
182	193				
233	63	253			
142	86	112	119		
224	154	100	180	87	

a) Josie travelled 112 miles on her journey.

Which two cities did she travel between?

Bristol and Liverpool ☐

Liverpool and Nottingham ☐

Norwich and Nottingham ☐

Cambridge and Norwich ☐

Sarah wants to travel from York to Cambridge.

b) How far apart are the two cities?

☐☐☐ miles

c) How much further will her journey be if she stops to visit her friend in Norwich on the way to Cambridge?

☐☐ miles

7 Year 6 are going on a trip to stay in a castle.

It will cost £2.80 per person for each day of the trip.
The children will be going for five days.

a) How much will the trip cost each child for the whole five days?

£ ☐☐ · ☐☐

52 children are going on the trip. 6 children can stay in each room in the castle.

b) What is the least number of rooms that the children will need?

☐ rooms

The children have to travel along a toll road to get to the castle.

Here are the charges:

	DAY	NIGHT
MOTORBIKE	£1.00	50p
CAR	£2.00	£1.00
VAN / MINIBUS	£4.50	£2.25
LORRY / COACH	£10.00	£3.00

The children are travelling in one coach and one minibus.

c) How much would they save by travelling at night?

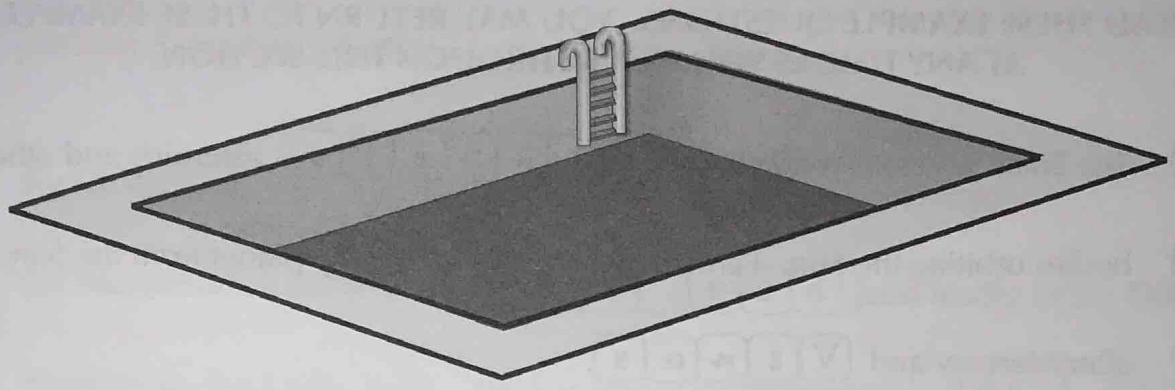
£ ☐ · ☐☐

On one **day**, the road is used by 13 motorbikes, 21 cars and 3 lorries.

d) How much money is collected altogether?

£ ☐☐

8 This swimming pool is 10 metres long, 5.5 metres wide and 2 metres deep.



a) What area of tiles would I need to cover the bottom of the pool?

☐☐ m^2

b) What area of tiles would I need to cover all four walls?

☐☐ m^2

Tiles come in packs that will cover 2 m^2.

c) How many packs are needed to tile the bottom of the pool and all four walls?

☐☐ packs

Each pack costs £9.

d) How much will it cost to tile the bottom of the pool and all four walls?

£☐☐☐

STOP — YOU MAY CHECK YOUR ANSWERS IN THIS SECTION ONLY