

# Second Practice Test 1 Levels 3-5

# Calculator not allowed

Please read this page, but do not open your booklet until your teacher tells you to start. Write your name and the name of your school in the spaces below.

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#### Remember

- The test is 1 hour long.
- You **must not** use a calculator for any question in this test.
- You will need: pen, pencil, rubber, ruler, tracing paper and mirror (optional).
- This test starts with easier questions.
- Try to answer all the questions.
- Write all your answers and working on the test paper do not use any rough paper. Marks may be awarded for working.
- Check your work carefully.
- Ask your teacher if you are not sure what to do.

For marker's	Total marks	
use only	Total marks	

# Instructions

#### **Answers**



This means write down your answer or show your working and write down your answer.

### **Calculators**

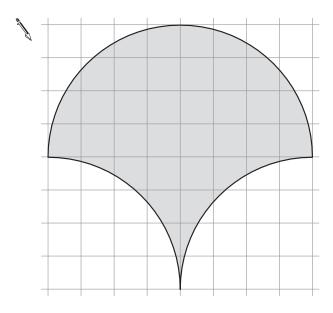


You **must not** use a calculator to answer any question in this test.

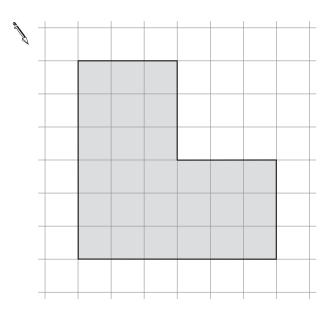
**1.** The shapes below are drawn on square grids.

Each shape has **one line of symmetry**.

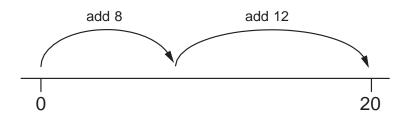
Draw the line of symmetry on each shape.



1 mark



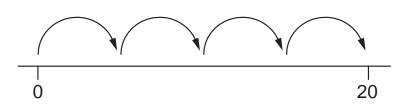
2. This number line shows one way to use **two steps** to move from 0 to 20



(a) On the number line below, show a **different** way to use **two steps** to move from 0 to 20



(b) This number line shows how to use **four steps** of the **same size** to move from 0 to 20

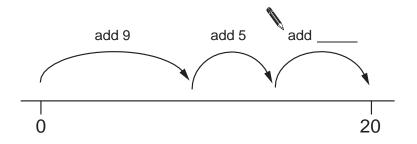


Complete the sentence below.

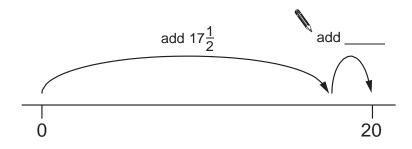


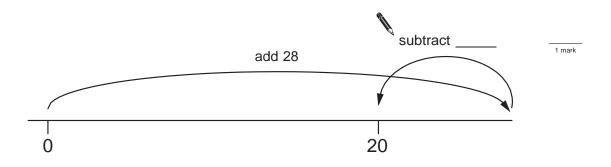
1 mark

(c) Write the missing number on each number line to show how to move from 0 to 20



1 mark



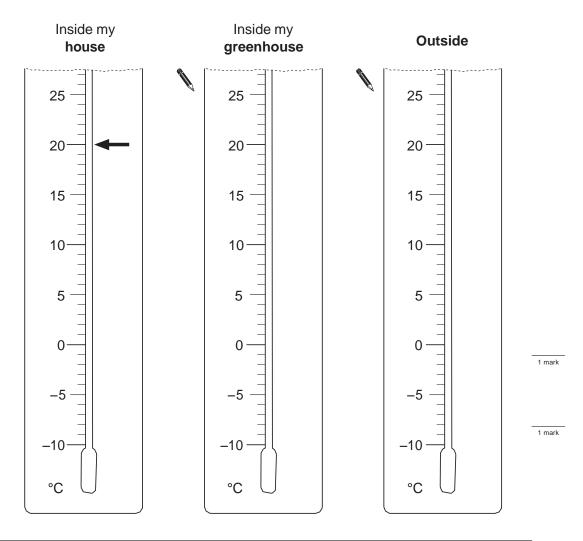


**3.** The table shows some temperatures for one day in winter.

Place	Temperature
Inside my house	20°C
Inside my greenhouse	8°C
Outside	-2°C

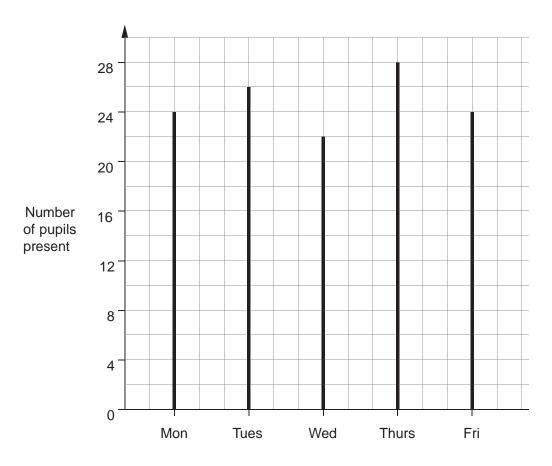
Draw arrows on the diagrams below to show these temperatures.

The first one is done for you.



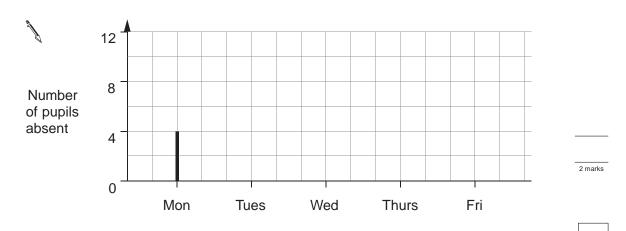
# 4. There are 28 pupils in class 9K.

The chart shows the number of pupils **present** each day, in class 9K.

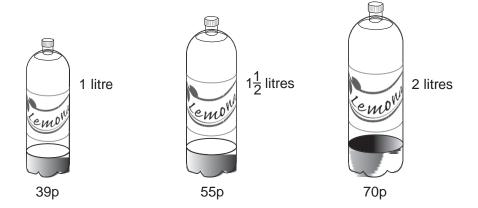


Four pupils were absent on Monday.

Complete the chart below to show the number of pupils **absent** each day, in class 9K.



**5.** A shop sells three different sized bottles of lemonade.



(a) I want 3 litres of lemonade.

I could buy three bottles of size 1 litre.

How much would that cost?



(b) Write a different way I could buy exactly 3 litres of lemonade.



Now work out how much it would cost.



(c)	Write another different way I could buy exactly 3 litres of lemonade.
	Now work out how much it would cost.
	£
(d)	My friend buys seven bottles of lemonade.
	<b>Two</b> of the bottles are of size $1\frac{1}{2}$ litres.
	Five of the bottles are of size 2 litres.
	How many litres is that altogether?
	litres

6. (a) Work out

1 mark

1 mark

(b) What number do you need to **add to 63** to make 100?



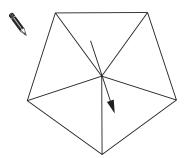
1 mark

(c) What number do you need to **subtract from 100** to make 38?



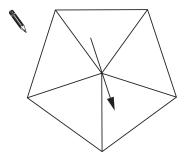
# 7. On each spinner write five numbers to make the statements correct.

It is certain that you will get a number less than 6



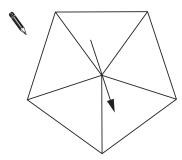
1 mark

It is more likely that you will get an even number than an odd number.



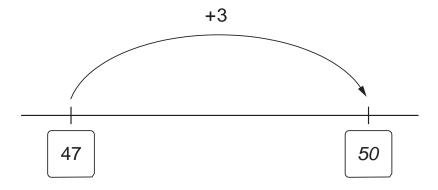
1 mark

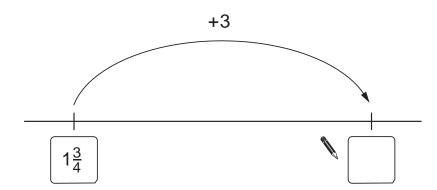
It is impossible that you will get a multiple of 3



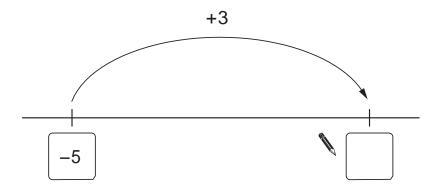
# **8.** Add three to the number on each number line.

The first one is done for you.





1 mark



Work out the missing numbers. 9.

In each part, you can use the first line to help you.

(a)

$$16 \quad \mathsf{x} \qquad = \quad 480$$

1 mark

(b)

$$46 \times 44 = 2024$$

1 mark

(c)

$$600 \div 24 = 25$$



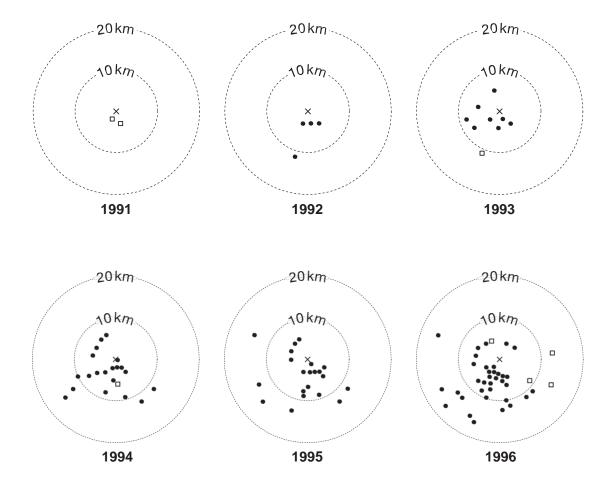
**10.** Red Kites are large birds that were very rare in England.

Scientists set free some Red Kites in 1989 and hoped they would build nests.

The diagrams show how many nests the birds built from 1991 to 1996.

### Key:

- × shows where the birds were set free.
- represents a nest without eggs.
- represents a nest with eggs.



Use the diagrams to answer these questions. (a) Which was the first year there were nests with eggs? 1 mark (b) In 1993, how many nests were there without eggs? 1 mark (c) In 1995, how many nests were more than 10km from where the birds were set free? 1 mark (d) Explain what happened to the **number** of nests, over the years. 1 mark

Now explain what happened to the distances of the nests from

where the birds were set free, over the years.

11.	(a)	Add together	1740 and 282
	(α,	Add togothor	17 TO UNG 202

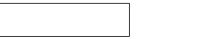


(b) Now **add** together 17.4 and 2.82

You can use part (a) to help you.

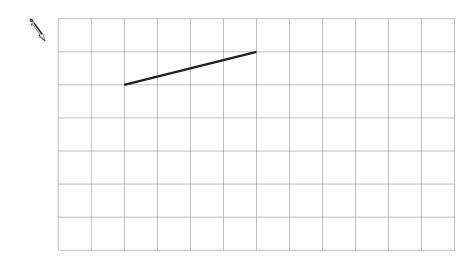


(c) 3.5 + 2.35 is **bigger** than 3.3 + 2.1 How much bigger?



**12.** (a) The line on the square grid below is one side of a **square**.

Draw 3 more lines to complete the square.

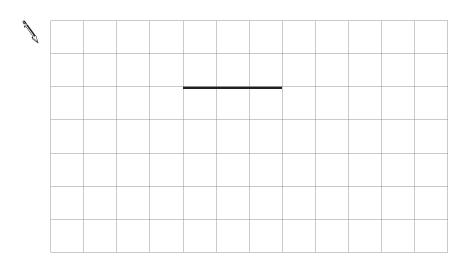


1 mark

(b) The line on the square grid below is one side of a **quadrilateral**.

The quadrilateral has only one pair of parallel sides.

Draw 3 more lines to show what the quadrilateral could be.



**13.** (a) Show that  $9 \times 28$  is 252



1 mark

(b) What is  $27 \times 28$ ?

You can use part (a) to help you.

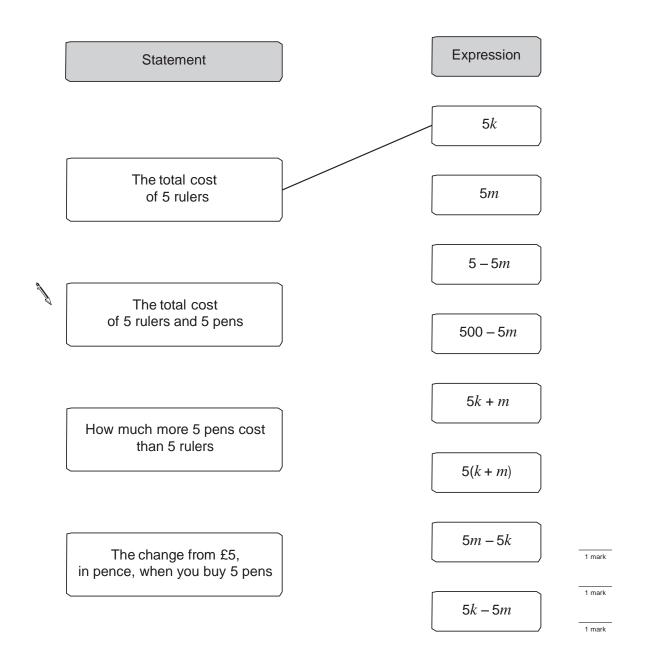


# **14.** A ruler costs k pence.

A pen costs m pence.

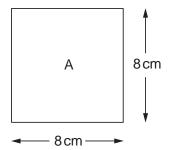
Match each statement with the correct expression for the amount in pence.

The first one is done for you.



# **15.** (a) I have a square piece of paper.

The diagram shows information about this square labelled A.



I fold square A in half to make rectangle B.



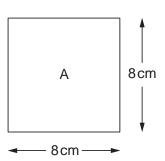
Then I fold rectangle B in half to make square C.



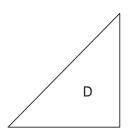
Complete the table below to show the area and perimeter of each shape.

	Area	Perimeter
Square A	cm <sup>2</sup>	cm
Rectangle B	cm <sup>2</sup>	cm
Square C	cm <sup>2</sup>	cm

(b) I start again with square A.



Then I fold it in half to make triangle D.



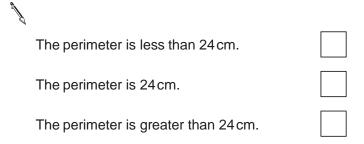
What is the area of triangle D?



1 mark

(c) One of the statements below is true for the  ${\bf perimeter}$  of triangle D.

Tick  $(\checkmark)$  the correct one.



Explain your answer.

**16.** (a) Work out the missing values.

10% of 84 = \_\_\_\_\_\_

5% of 84 = \_\_\_\_\_\_  $2\frac{1}{2}\%$  of 84 = \_\_\_\_\_\_

2 marks

(b) The cost of a CD player is £84 **plus**  $17\frac{1}{2}\%$  tax.

What is the total cost of the CD player?

You can use part (a) to help you.

1

£

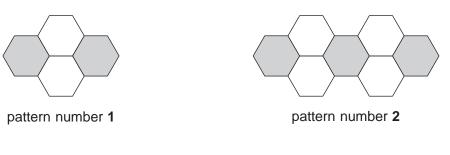
**17.** Solve these equations.

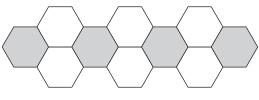
$$2k + 3 = 11$$

$$2t + 3 = -11$$

<b>18.</b> (a)	I am thinking of a number.			
( )	My number is a <b>multiple of 4</b>			
	Tick $(\checkmark)$ the true statement below.			
	My number must be even	My number must be odd	My number could be odd or even	
J.	Explain how you know.			
				1 mar
(b)	I am thinking of a different number	er.		
	My number is a factor of 20			
	Tick $(\checkmark)$ the true statement below.			
	My number must be even	My number must be odd	My number could be odd or even	
	Explain how you know.			

# **19.** Look at this sequence of patterns made with hexagons.





pattern number 3

To find the number of hexagons in pattern number n you can use these rules:

Number of **grey** hexagons = n + 7

Number of **white** hexagons = 2n

Altogether, what is the total number of hexagons in pattern number 20?

**END OF TEST** 

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