

***ELEVEN PLUS
TEST
Mathematics***

External Use

11+ Test Maths Paper

40 minutes

First Name

Middle Name/s

Last Name

School

Date of Birth

DD / MM / YYYY



a) Calculate: $19.04 + 3.21$

b) Add: 521 and $8,911$



a) Work out the difference between: $3,791 - 431$

b) Calculate: $74.07 - 29.06$



a) Multiply: 34×310

b) Calculate: 22×4.2



a) Divide: 111 by 3

b) Calculate: $12 \div 2.4$



The following calculations have **one** digit missing. Where there is a question mark, find the digit that completes the calculation.

a) $95 + 3?8 = 423$

b) $0.8? - 0.39 = 0.44$

c) $32 \times 3?9 = 11,488$

d) $784 - 462 = 32?$

e) $6.2 \div 0.? = 31$

f) $4? - 73 = -28$



The following price list shows the costs for some stationary items at a shop.

Rulers	£0.65 each
Pencils	£0.25 each
Black Pens	£0.35 each
Coloured Gel Pens	£0.45 each

- a) Lucie needed to stock up on some items. She bought 10 rulers, 25 pencils, 8 black pens and 5 coloured gel pens. She paid using a twenty pound note. How much change did she receive?

- b) Reis also purchased some stationary. He required a larger quantity than Lucie. In total he purchased 24 rulers, 52 pencils, 52 black pens and 35 coloured gel pens. What was his total spend in pounds and pence?

- c) Emily has £6.20 to spend on coloured gel pens. How many can she afford to buy?

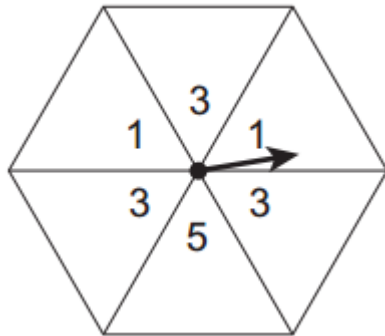


- a) Magdalena falls asleep at 22:25 and wakes up at 07:40. How long did Magdalena sleep for in hours and minutes?

- b) Magdalena decides that she needs 45 more minutes sleep a night but she still needs to wake up at the same time in the morning. At what time will she need to fall asleep?



Have a look at the spinner below.



- a) What is the chance of it landing on an even number?

- b) What is the chance of the spinner landing on an odd number?



Have a look at the following conversion calculations below:

- a) A bag of flour has 1,319g remaining in it. How much is this in *kg*?

.....*kg*

b) A piece of pipe measures 1,091mm long. How much is this in *cm*?

.....*cm*

c) Calculate the total value of the following, and provide your answer in *cm*:

$$7\text{cm} + 1.5\text{mm} + 0.8\text{m}.$$

.....*cm*

d) A beaker has 0.34 litres in it. How much is this in *ml*?

.....*ml*

e) The area of a square is $6\text{cm} \times 6\text{cm} = 36\text{cm}^2$. What is this area written in mm^2 ?

..... mm^2



A group of children participated in a spelling test. Their scores were as follows:

81	75	71	83	90	68
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a) What is the mean (average) score?

b) What is the range?

- c) Some other scores were submitted to the overall results later on. These scores were: 72 and 76. Does this change the overall mean score?



Calculate the value of:

a) $(6 + 3) \times (7 + 9)$

b) $12 + (5 \times 8) + 32$

c) $(16 - 7) \times 7 + 4$

d) $9 \times (5 + 8) + 17$



Michael needs to buy a new laptop. He finds one online for £550. He goes into the shop to buy it and finds out that there is a 15% discount if he orders today.

- a) How much would the computer cost if Michael were to buy the computer with the discount?

- b) Later on, Michael decides to purchase an extra screen to use with his laptop. The cost of the screen is £159 and he has a 5% discount code from his last purchase. How much does the screen cost him with the discount?



A number machine is used to perform certain calculations. The number machine is pictured below.

INPUT \rightarrow (x5) \rightarrow (+2) \rightarrow OUTPUT

- a) What will the output be from the machine if the number 7 is the input?

- b) What is the input into the machine if the number 62 is the output?

Another number machine looks like this:

INPUT \rightarrow (x?) \rightarrow (-?) \rightarrow OUTPUT

- c) The input was 4 and the output was 25. Another input was 5 and the output was 32. What calculations did the machine perform?

- d) Using the same machine, calculate the output that would be when the input is 19.



Below is a chart showing some of the sizes of different pieces of slate. Fill in the missing gaps to complete the chart.

Area (cm ²)	Perimeter (cm)	Length (cm)	Width (cm)
55	a)	11	b)
c)	d)	8	4
54	e)	f)	9



Assume that the letters of the alphabet have the following ascending values:

A = 1, B = 2, C = 3, D = 4 and so on, and answer the following questions by adding up the values of the letters.

For example, the word **KEY** = 11 + 5 + 25 = a value of **41**

- a) What is the value of the word **PEAR**?

- b) Sort the following words in ascending order:

LAMP
DOOR
FELT

1.
2.
3.

For the next questions, the letters of the alphabet have the same number values as before (A = 1, B = 2, C = 3, D = 4 and so on), however this time you must *multiply* the numbers to reach your answers.

For example, the word **BEE** = $2 \times 5 \times 5$ = a value of **50**

c) What is the value of the word **DIG**?

d) Sort the following words in ascending:

BIG
RED
VAN

1.
2.
3.

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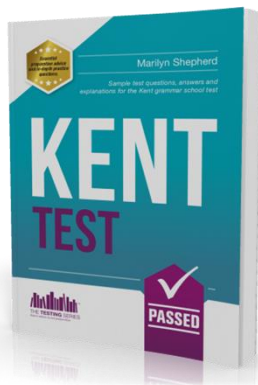
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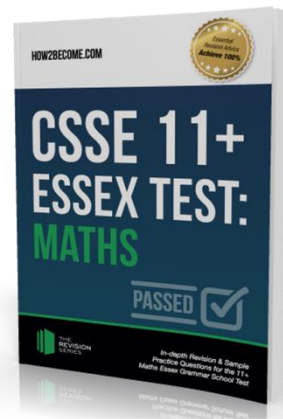
11+ KS2 Maths



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