Devonport
High School
For Boys

11+ Familiarisation

2020

Mathematics Test

Time Allowed: 40 minutes

Do not turn the page until you are told to do so

Answers should be marked on the answer sheet using a pencil

Only give one answer to each question

If you become stuck on a question go on to the next and come back if time allows

Use the paper supplied to do any working out necessary

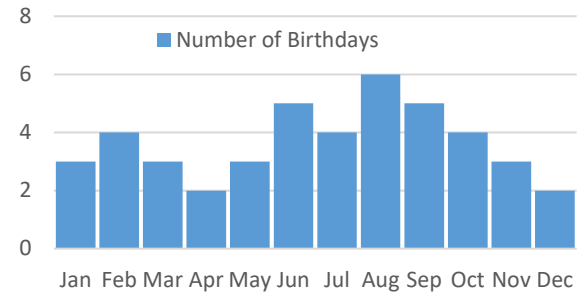
You will have 40 minutes to do the test

Name	

Question 1

Rearrange the order of the digits in 2965 to make the smallest possible number.

Question 2

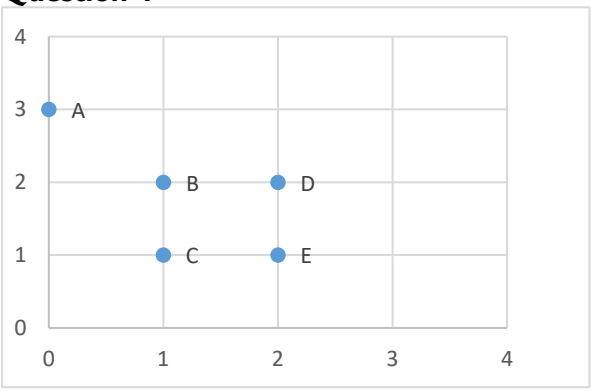


During which month are there the most birthdays?

Question 3

Shanghai in China is 8 hours ahead of the time in the UK. If it is 09.00 in the UK, what time is it in Shanghai?

Question 4



Which point has coordinates (2, 1) ?

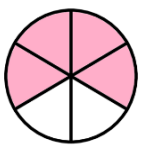
Question 5

Split 480 into 6 equal parts.

Question 6

In the number 236.751, what does the 7 stand for?

Question 7



What fraction of the shape is shaded?

Question 8

One pint is 568ml. How many ml is half a pint?

Question 9



What is the sum of the angles in the shape above?

Question 10

How many 15cm strips can I cut from a ribbon 1m long?

Question 11

What is 36 ÷ (9 + 3)?

Question 12

What is the next number in this sequence?

47, 40, 33, 26, …

Question 13

It is 15° in Plymouth. In Reykjavik, the capital of Iceland, it is 17°colder. What is the temperature in Reykjavik?

Question 14



40 students were asked which was their favourite colour. How many students chose Yellow?

Question 15

A coach journey from Plymouth to Exeter leaves at 16.15 and arrives at 17.36. How many minutes does the journey take?

Question 16

The same coach takes 3h to get to Bristol, a journey of 120 miles. What is its average speed in miles per hour?

Question 17

Rearrange the following numbers from the smallest to the largest.

0.601, 0.067, 0.161, 0.106

Question 18

What percentage of £5 is £1?

Question 19

Day	Temperature
Monday	15
Tuesday	13
Wednesday	12
Thursday	9
Friday	16

The table shows midday temperatures. What is the average midday temperature?

Question 20

Gym membership costs £16 a month. How much will it cost for a year?

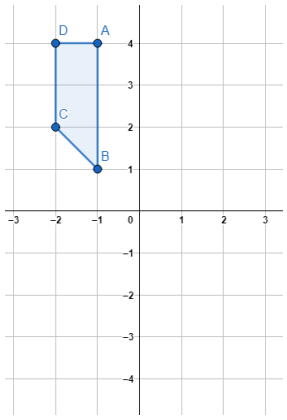
Question 21

2.3 ÷ 1000 =

Question 22

A recipe for 4 people needs 150g of flour. How much flour would you need to make the same recipe for 6 people?

Question 23



What would be the coordinates of D if the shape above was reflected in the y-axis?

Question 24

A box contains 48 pencils.
If I take out ¾ of the pencils how many would be left?

Question 25

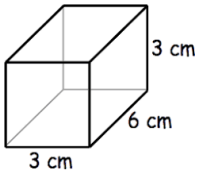
2 13 17

Select one statement which is true for ALL three numbers
A They are all even numbers
B They are all square numbers
C They are all odd numbers
D They are all prime numbers
E They are all divisible by 3

Question 26

What is 11^2

Question 27



What is the volume of the box above?

Question 28

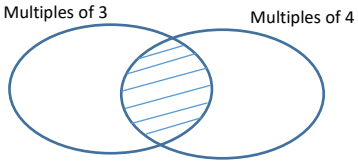
Put these fractions in size order, smallest to largest

$\frac{1}{2}, \frac{1}{4}, \frac{1}{8}, \frac{3}{4}, \frac{3}{8}$

Question 29

4.679 + 2.15 = ?

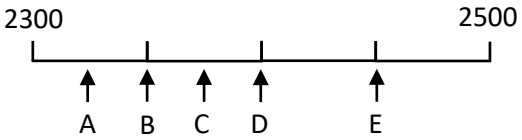
Question 30



How many of the following numbers should go into the shaded region?

3 5 12 43 48

Question 31



Which arrow is pointing at 2375?

Question 32

What is 76.5974 correct to 2 decimal places?

Question 33

If 432.6 × 7 = 3028.2
What is 43.26 × 0.7 ?

Question 34

How much change would you get from £10 if you bought 7 Chocco™ bars at 78p each?

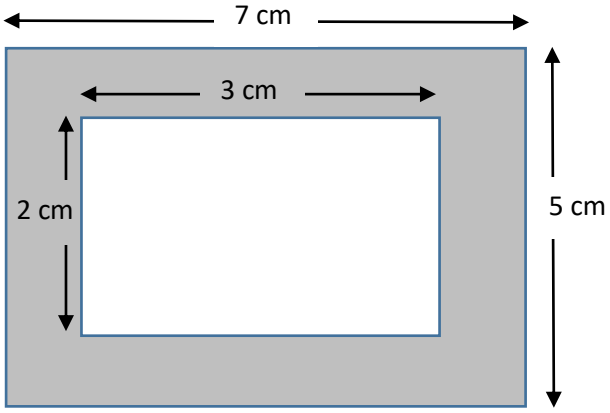
Question 35

Which number should go in the box?



- 230 = 40 × 30

Question 36



What is shaded area?

Question 37

What is 1.9 as a fraction?

GO STRAIGHT ON

Question 38

John's garden is a rectangle measuring 8m by 5m. He wants to pave the garden using slabs which are 1m by 0.5m.
How many slabs will he need?

Question 39

Peter Pilgrim has scored a goal in each of his last 4 football games. On average he has taken 23 minutes to score.
He scores again in the next game after 33 minutes.
What will the average time to score be for all five games?

Question 40

What is 15% of £120?

Question 41

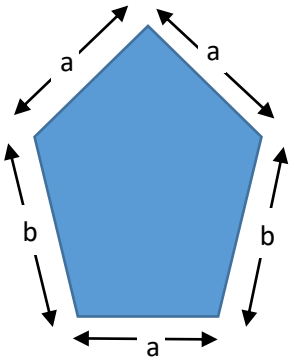
What is the 40th number in the following sequence?

10, 13, 16, 19, …

Question 42

A cube has volume 12 cm^3
If the length of each edge is doubled what will the new volume be?

Question 43



What is the perimeter of the shape above?

Question 44

How many seconds in a day?

END OF TEST