



Devonport
High School
For Boys

11+ Familiarisation
2021

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

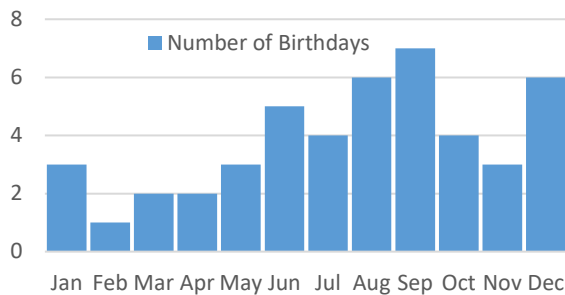
You will have 40 minutes to do the test

Name	
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Question 1

Rearrange the order of the digits in 9317 to make the largest possible number.

Question 2

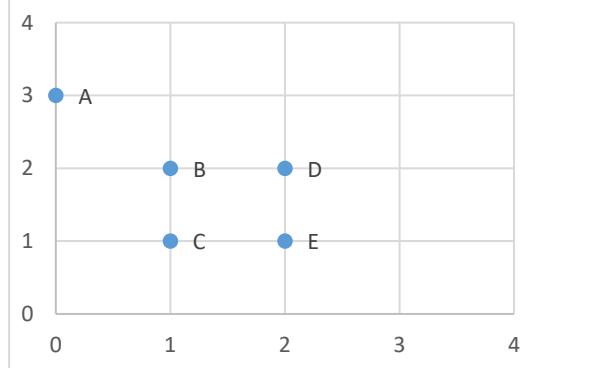


During which month are there the most birthdays?

Question 3

Shanghai in China is 8 hours ahead of the time in the UK. If it is 11.15 in the UK, what time is it in Shanghai?

Question 4



Which point has coordinates (1, 2) ?

Question 5

Split 640 into 8 equal parts.

Question 6

In the number 236.571, 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 a quarter of a pint?

GO STRAIGHT ON

Question 9



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

Question 10

How many 12cm strips can I cut from a ribbon 1m long?

Question 11

What is $45 \div (9 + 6)$?

Question 12

What is the next number in this sequence?

57, 51, 45, 39, ...

Question 13

It is 11° in Plymouth. In Reykjavik, the capital of Iceland, it is 12° colder. What is the temperature in Reykjavik?

Question 14



100 students were asked which was their favourite colour. How many students chose Blue?

Question 15

A coach journey from Plymouth to Exeter leaves at 4.07pm and arrives at 5.22pm. How many minutes does the journey take?

Question 16

The same coach takes 4h to get to Birmingham, a journey of 180 miles. What is its average speed in miles per hour?

GO STRAIGHT ON TO THE NEXT PAGE

Question 17

Rearrange the following numbers from the smallest to the largest.

0.701, 0.077, 0.171, 0.107

Question 18

What percentage of £15 is £3?

Question 19

Day	Temperature
Monday	17
Tuesday	14
Wednesday	13
Thursday	9
Friday	17

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

Question 20

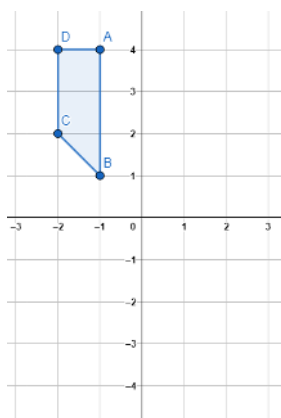
Gym membership costs £13 a month. How much will it cost for a year?

Question 21

$$3.02 \div 1000 =$$

Question 22

A recipe for 4 people needs 100g of sugar. How much sugar 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 x-axis?

GO STRAIGHT ON

Question 24

A box contains 52 pencils.

If I take out $\frac{3}{4}$ of the pencils how many would be left?

Question 25

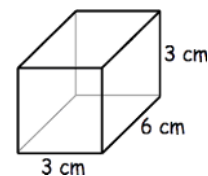
9 13 19

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 17^2

Question 27

What is the volume of the box above?

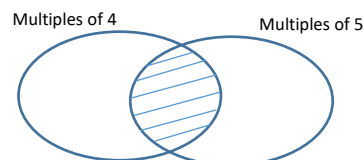
Question 28

Put these fractions in size order, smallest to largest

$$\frac{1}{2}, \frac{1}{4}, \frac{3}{8}, \frac{3}{4}, \frac{3}{16}$$

Question 29

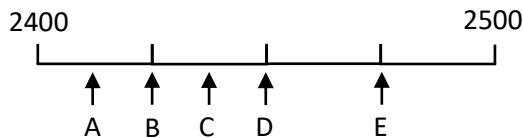
$$4.779 + 2.35 = ?$$

Question 30

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

4 5 12 40 48

GO STRAIGHT ON TO THE NEXT PAGE

Question 31

Which arrow is pointing at 2475?

Question 32

What is 76.597 correct to 2 decimal places?

Question 33

If $43.26 \times 7 = 302.82$

What is 432.6×0.7 ?

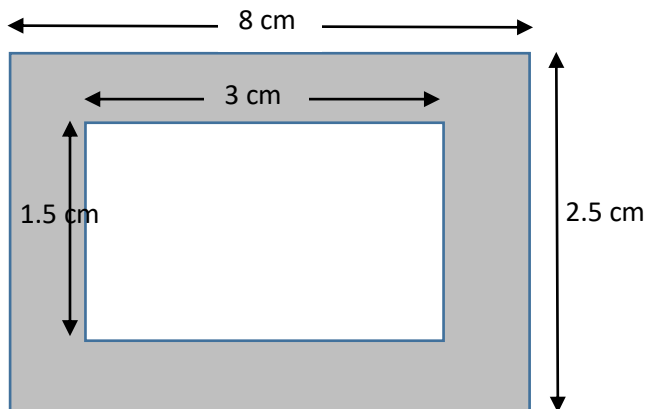
Question 34

How much change would you get from £10 if you bought 8 Chocco™ bars at 79p each?

Question 35

Which number should go in the box?

$$\boxed{} - 270 = 40 \times 15$$

Question 36

What is shaded area?

Question 37

What is 2.7 as a fraction?

Question 38

John's garden is a rectangle measuring 8m by 6m. 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 3 football games. On average he has taken 29 minutes to score.

He scores again in the next game after 33 minutes. What will the average time to score be for all four games?

Question 40

What is 35% of £130?

Question 41

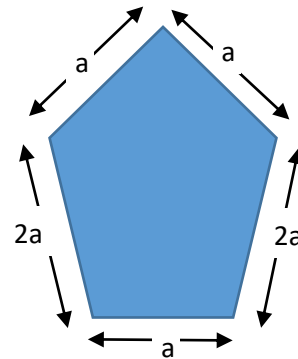
What is the 50th number in the following sequence?

7, 11, 15, 19, ...

Question 42

A cube has volume 12 cm^3

If the length of each edge is tripled what will the new volume be?

Question 43

What is the perimeter of the shape above?

Question 44

How many minutes in a week?

