

Numbers operations and integers – 2022 GCSE Mathematics Foundation**1. June/2022/Paper- J560/01/No.4**

Jamie has some empty boxes.
 Each box can hold 73 pencils.
 Jamie has 590 pencils.

Jamie says that eight boxes are needed to hold all of the pencils.

Is Jamie correct?

You must show your working.


..... because
 [2]

2. June/2022/Paper- J560/01/No.6

Ashley has these three number tiles.



- (a) Which one of Ashley's tiles shows a cube number?
 Write the number on the blank tile on the answer line.


(a)  [1]

- (b) Write down a two-digit prime number that can be made using two of Ashley's tiles.



(b) [1]

- (c) Write down the three-digit number closest to 300 that can be made using all three of Ashley's tiles.



(c) [1]

3. June/2022/Paper- J560/02/No.1a(i, ii)**(a)** Work out.

(i) $4 - 5$

(a)(i) **[1]**

(ii) 2×-3

(ii) **[1]**

4. June/2022/Paper- J560/03/No.1

(a) Write down a factor of 18.

(a) [1]

(b) Write down a square number between 10 and 20.

(b) [1]

(c) Write $\frac{1}{4}$ as a decimal.

(c) [1]

(d) Find the two numbers which multiply together to make 40 **and** add together to make 13.

(d) and [2]

5. June/2022/Paper- J560/03/No.17

Some boxes are each in the shape of a cuboid.
The base of each box is exactly 35 cm by 45 cm.

The boxes are to be placed on their base, side by side against a wall.
If all the shorter sides or if all the longer sides are against the wall, they fit perfectly with no gaps.

Find the shortest possible length of the wall.

..... cm **[4]**