

Approximation and Estimation – 2021/20 GCSE Mathematics Foundation**1. Nov/2021/Paper_J560/01/No.5**

(a) Round 564 to the nearest ten.

(a) [1]

(b) Round 438 749 to 3 significant figures.

(b) [1]

2. Nov/2020/Paper_J560/01/No.16

The height, h , of a lorry is 4.3 metres, correct to 1 decimal place.

Complete the error interval for the height, h .

..... $\leq h <$ [2]

3. Nov/2020/Paper_J560/03/No.20

A truck is used to transport some wood panels.

Each wood panel is a cuboid measuring 2.4 m by 1.2 m by 1.8 cm.

The density of each wood panel is 750 kg/m^3 .

The truck can carry 15 tonnes of these wood panels.

Calculate the maximum number of wood panels that the truck can carry.

Show how you decide.

..... [6]

4. Nov/2021/Paper_J560/03/No.18

A carpenter measures the length, k metres, of a piece of wood.

They write

$$3.35 \leq k < 3.45.$$

(a) Put rings around all possible values of k in the list below.

3.349

3.39

3.44

3.45

3.55

[2]

(b) The carpenter says

$3.35 \leq k < 3.45$ means that the length of the piece of wood is 3.4 metres correct to the nearest centimetre.

(i) Explain how you know that she is incorrect.

.....

..... [1]

(ii) Complete the interval for 3.4 m, correct to the nearest centimetre.

$3.395 \leq k < \dots\dots\dots$ [1]