

N4

Number exam review

- 1 This is a list of ingredients for making a pear & almond crumble for 4 people.

Ingredients for **4** people.

80 g plain flour
60 g ground almonds
90 g soft brown sugar
60 g butter
4 ripe pears

Work out the amount of each ingredient needed to make a pear & almond crumble for **10** people.

..... g plain flour

..... g ground almonds

..... g soft brown sugar

..... g butter

..... ripe pears

(Total 3 marks)

- 2 The total of Kim's age and Pablo's age is 45 years.
The ratio of Kim's age to Pablo's age is 1 : 4

Work out Kim's age.

..... years

(Total 2 marks)

3 Bridget flew from the UK to Dubai.
Her flight from the UK to Dubai covered a distance of 5456 km.
The flight time was 7 hours 45 minutes.
Work out the average speed of the flight.

..... km/h

(Total 3 marks)

4 Rajesh and Gudi share some money in the ratio 2 : 5
Rajesh receives £240

Work out the amount of money that Gudi receives.

£

(Total 2 marks)

5 Two fruit drinks, *Fruto* and *Tropico*, are sold in cartons.

a *Fruto* contains only orange and mango.

The ratio of orange to mango is 3 : 2

A carton of *Fruto* contains a total volume of 250 cm³.

Find the volume of orange in a carton of *Fruto*.

..... cm³

(3)

b *Tropico* contains only lemon, lime and grapefruit.

The ratios of lemon to lime to grapefruit are 1 : 2 : 5

The volume fo grapefruit in a carton of *Tropico* is 200 cm³.

Find the total volume of *Tropico* in a carton.

..... cm³

(3)

6 The amount of petrol a car uses is directly proportional to the distance it travels
A car uses 3 litres of petrol when it travels 50 km.

a Work out the amount of petrol the car uses when it travels 125 km.

..... litres

(2)

b Work out the distance the car travels when it uses 5.7 litres of petrol.

..... km

(2)

(Total 4 marks)

7 The table shows the mean distances of the planets from the Sun.

Planet	Mean distance from the Sun (km)
Mercury	5.8×10^7
Venus	1.1×10^8
Earth	1.5×10^8
Mars	2.3×10^8
Jupiter	7.8×10^8
Saturn	1.4×10^9
Uranus	2.9×10^9
Neptune	4.5×10^9

a Which planet is approximately 4 times as far from the Sun as Mercury?

.....

(1)

b Find the ratio of the mean distance of Earth from the Sun to the mean distance of Neptune from the Sun. Give your answer in the form $1 : n$

.....

(2)

(Total 3 marks)

8 Ann and Bob shared £240 in the ratio 3 : 5

Ann gave a **half** of her share to Colin.

Bob gave a **tenth** of his share to Colin.

What fraction of the £240 did Colin receive?

.....

(Total 4 marks)

9 A company bought a van that had a value of £12 000
Each year the value of the van depreciates by 25%.

a Work out the value of the van at the end of three years.

£

(3)

The company bought a new truck.

Each year the value of the truck depreciates by 20%.

The value of the new truck can be multiplied by a single number to find its value at the end of four years.

b Find this single number as a decimal.

.....

(2)

(Total 5 marks)