1 When you earn money you pay income tax.

The amount you pay depends on how much you earn that year.

You pay

0% on the first £12500 you earn

20% on the next £37 500 you earn

40% on the next £112500 you earn.

One year, Kim paid £9260 income tax.

Work out how much she earned that year.

[4 marks]

$$0.2 \times 37500 = 7500$$



Answer £ 54 400

2 Show that 2125 can be written as

a cube number **multiplied** by a prime number between 10 and 20

[2 marks]

3 Amol owns a sandwich shop.

The shop is open from Monday to Saturday.

In June, Amol sold 3000 sandwiches.

3 (a) Amol wants to work out the mean number of sandwiches he sold per day in June.

His method is $3000 \div 30 = 100$

Make one criticism of Amol's method.

[1 mark]

The shop is open less than 30 days.

4 Work out
$$-4 \times -\frac{7}{9}$$

Circle your answer.

[1 mark]

$$-\frac{28}{36}$$

$$-\frac{28}{9}$$

5 Write a number in each box to make the calculations correct.

[2 marks]

$$\frac{1}{3}$$
 × $\frac{1}{3}$ × $\frac{1}{3}$