

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 £12 500 you earn  
20% on the next £37 500 you earn  
40% on the next £112 500 you earn.

One year, Kim paid £9260 income tax.  
Work out how much she earned that year.

[4 marks]

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Answer £ \_\_\_\_\_

- 2** Show that 2125 can be written as  
a cube number **multiplied** by a prime number between 10 and 20 **[2 marks]**

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- 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]**

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

Circle your answer.

[1 mark]

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

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

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

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

5

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

[2 marks]

$$\boxed{10} \div \boxed{-2} \times \boxed{\phantom{00}} = \boxed{5}$$

$$\boxed{\frac{1}{3}} \times \boxed{\phantom{00}} \times \boxed{6} = \boxed{8\pi}$$