

Name:

## Exam Style Questions

# VAT



Corbettmaths

Equipment needed: Calculator, pen

### Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

### Video Tutorial

[www.corbettmaths.com/contents](http://www.corbettmaths.com/contents)

## Video 400g



### Answers and Video Solutions



1. A new bicycle costs £300 plus VAT at 20%



Work out the total cost of the bicycle.

$$10\% \rightarrow \pounds 30$$

$$20\% \rightarrow \pounds 60$$

$$300 + 60 = \pounds 360$$

£..... 360 .....  
(2)

2. A gas bill is for £160 plus VAT at 5%



Calculate the VAT

$$10\% \rightarrow \pounds 16$$

$$5\% \rightarrow \pounds 8$$

£..... 8 .....  
(2)

3. Josie buys a television that costs £425 plus VAT at 20%.



Work out the total price of the television.

$$10\% \rightarrow \pounds 42.50$$

$$20\% \rightarrow \pounds 85$$

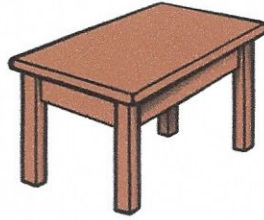
$$425 + 85 = \pounds 510$$

£..... 510 .....  
(2)

4. Shown below is the price of a table.



£289 plus VAT



VAT is added at 20%

Work out the cost of the table including VAT

$$289 \times 1.2 = \pounds 346.80$$

346.80  
£.....  
(2)

5. Tamara finds two shops that sells the same photo frame.



Shop A  
£19.99  
Price includes VAT

Shop B  
£17  
Price does not include VAT

The rate of VAT is 20%

Which shop is better value for money?

You must show your working.

$$17 \times 1.2 = \pounds 20.40 \text{ (shop B)}$$
$$\pounds 19.99 \text{ (shop A)}$$

Shop A  
.....  
(3)

6. Umar wants to buy 6 chairs for his dining table.



The shop has a special offer.

**Buy 2 chairs and get 1 free**

Each chair costs £85 plus VAT at 20%

$$85 \times 1.2 = \pounds 102$$

Work out how much Umar will pay in total for the chairs.

buy 4 and get 2 free.

$$4 \times \pounds 102 = \pounds 408$$

£ 408  
(4)

7. Martha bought a new caravan.



The cost of the caravan is £35000 plus VAT at 20%

Martha paid a £15000 deposit and the rest of the total cost over 48 equal monthly payments.

Work out the amount of each monthly payment.

$$35000 \times 1.2 = \pounds 42000$$

$$42000 - 15000 = 27000$$

$$27000 \div 48 = \pounds 562.50$$

£ 562.50  
(4)

8. In Germany, a watch costs €120 plus VAT at 19%



Work out the total cost of the watch.

$$120 \times 1.19$$

€.....142.80  
(2)

9. Sophie bought a handbag in Italy for €250 plus VAT at 22%

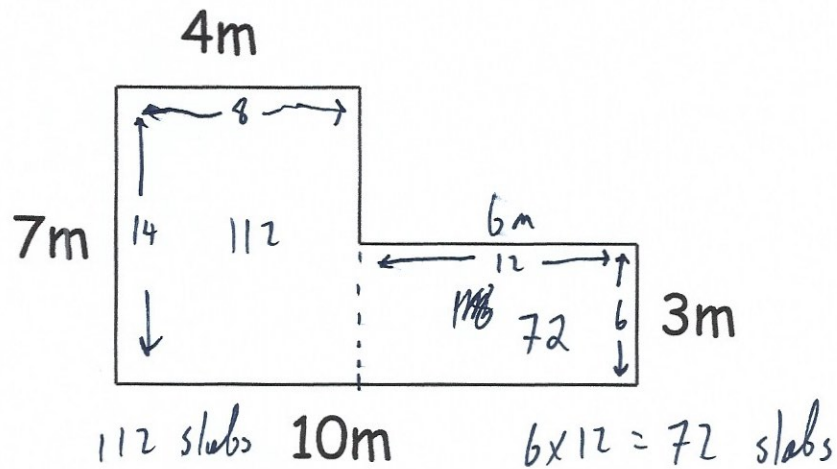


Calculate the VAT.

$$250 \times 0.22 = 55$$

€.....55  
(2)

10. Alan is buying paving slabs for his garden.  
Shown below is a diagram of his garden.



Alan is going to use square paving slabs measuring 50cm by 50cm.  
Each paving slab costs £9 plus VAT at 20%       $9 \times 1.2 = £10.80$

Work out the total cost for the paving slabs needed.

$$112 + 72 = 184 \text{ paving slabs}$$

$$184 \times 10.80 = £1987.20$$

$$£ \underline{1987.20}$$

(6)

11. Natalie buys a new television.



The cost of the television is £480 including VAT at 20%.

Work out the price of the television without VAT.

$$\begin{array}{l} \div 120 \left\{ \begin{array}{l} 120\% \rightarrow 480 \\ 1\% \rightarrow 4 \end{array} \right. \div 120 \\ 100\% \rightarrow 400 \end{array}$$

£ 400  
(2)

12. Daniel buys 30m<sup>2</sup> of carpet



The carpet costs £60 per square metre, including VAT at 20%  $30 \times 60 = 1800$

Work out how much VAT Daniel paid.

$$\begin{array}{l} \text{or } £1800 \rightarrow 120\% \\ \div 6 \qquad \qquad \div 6 \\ £300 \rightarrow 20\% \end{array}$$

$$\begin{array}{l} 120\% \rightarrow £60 \\ \div 12 \qquad \qquad \div 12 \\ 10\% \rightarrow £5 \\ \times 2 \qquad \qquad \times 2 \\ 20\% \rightarrow £10 \end{array}$$

$$10 \times 30 = £300$$

£ 300  
(3)

13. Frank buys a desk that costs £1497



This includes VAT at a rate of 20%

Calculate the amount of VAT that Frank paid.

$$1497 \div 1.2 = £1247.50$$

$$1497 - 1247.50 = £249.50$$

£ 249.50  
(3)

14. A watch costs £42 including VAT at a rate of 20%.



How much is the watch without VAT?

$$42 \div 1.2 = \pounds 35$$

£.....35.....  
(3)

15. George spends €96.80 for a pair of shoes while on holiday in Spain.  
This price includes VAT at a rate of 21%



Work out how much the shoes cost without VAT.

$$96.80 \div 1.21 = 80$$

€.....80.....  
(3)

16. The VAT rate in Ireland is 23%  
The cost of a toaster, including VAT, is €43.05



Find the cost of the toaster without VAT.

$$43.05 \div 1.23 = 35$$

€.....35.....  
(3)

17. Jessica bought a new computer.  
The price includes VAT at a rate of 20%.



Jessica divides the price by an integer to find the amount of VAT paid.

Circle the integer.

3

4

5

6

$$120 \div 6 = 20$$

(1)