

# m3 = 37 days to go!

6 Peter buys mince and potatoes.

Mince costs £6 per kg.

Peter buys 3.2 kg of mince and 1.8 kg of potatoes.

The total cost is £20.46

How much does it cost for 1kg of potatoes?

$$\begin{aligned} \text{Mince} \\ 3.2 \times 6 \\ = \pounds 19.20 \end{aligned}$$

$$20.46 - 19.20 = 1.26$$

$$1.8 \text{ kg Potatoes cost } \pounds 1.26$$

$$1 \text{ kg Potatoes cost } \frac{1.26}{1.8} = 0.7$$

$$\pounds 0.70 = 70 \text{ pence}$$

13

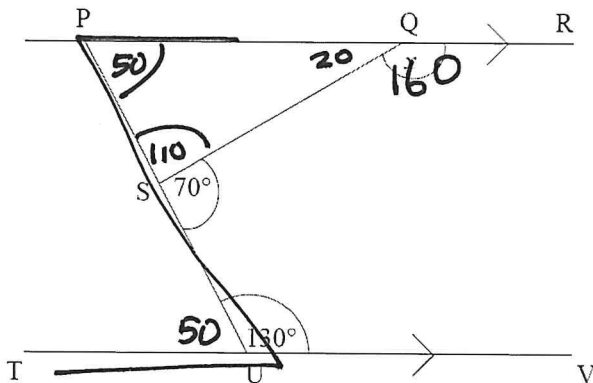


diagram  
not drawn  
accurately

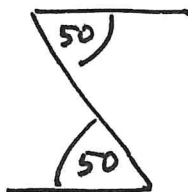
F U Z  
C I A

corresponding  
interior alternate

PR and TV are parallel lines.

Calculate the size of angle x.

Look at Z angle in diagram



Answer \_\_\_\_\_ ° [3]

- 19 (a) The price of a TV is increased by 20%.

In a sale this price is decreased by 20%.

By choosing any starting price for the TV, show that the final sale price is lower than the starting price.

£400

increase by 20%

20% is £80

$$400 + 80 = £480.$$

decrease by 20%

20% is £96

$$480 - 96 = £384$$

[3]

- 24 Write down the equation of a line parallel to the line with equation  $y = 3x + 5$

Answer \_\_\_\_\_ [2]

$$y = mx + c$$

$$y = 3x + 5$$

↑  
gradient 3.  
Parallel lines have same gradient

$$y = 3x + 1$$

$$y = 3x + \text{something}.$$