

M2 = 39 days to go!

6 (a) Simplify

$$2c + 5e + 8c - 2e$$

Answer $10c + 3e$ [2]

(b) Solve

$$w + 13 = 27$$

$$\begin{array}{c} (-13) \\ (-13) \end{array}$$

$$w = 14$$

Answer $w = \underline{14}$ [1]

12 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?

$$3.2 \times 6 = 19.20 \text{ for the mince}$$

$$20.46 - 19.20 = 1.26 \text{ for the potatoes}$$

so £1.26 is 1.8 kg of

$$\frac{1.26}{1.8} = 0.7$$

Ans 70 pence

£0.70

- 20 The waiting times for patients at a surgery are recorded in the table.

Waiting time t (minutes)	Number of patients	Frequency
2.5	7	2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5
7.5	8	7.5, 7.5, 7.5, 7.5, 7.5, 7.5, 7.5, 7.5
12.5	5	12.5, 12.5, 12.5, 12.5, 12.5
17.5	5	17.5, 17.5, 17.5, 17.5, 17.5
22.5	4	22.5, 22.5, 22.5, 22.5
27.5	1	27.5

THE BIG LIST

Calculate an estimate of the mean waiting time.

Mean = $\frac{\text{add up}}{\text{how many}}$

$$= \frac{345}{30}$$

Answer 11.5 minutes [4]

Only an estimate because there are intervals and we just use the mid-points because we don't know the exact data

- 24 The longest side in a right-angled triangle is 12 cm.

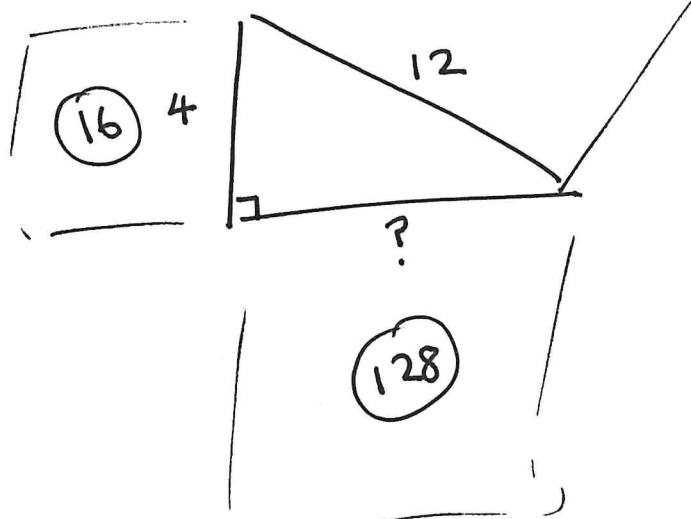
tricky question

One of the shorter sides is 4 cm.

Calculate the perimeter of the triangle.

Give your answer correct to 1 decimal place.

Think Pythagoras'



$$?^2 + 4^2 = 12^2$$

$$?^2 + 16 = 144$$

$$?^2 = 128$$

$$? = \sqrt{128}$$

$$? = 11.31$$

11.3 (1d.p.)

$$\begin{aligned} \text{Perimeter} &= 4 + 12 + 11.3 \\ &= 27.3 \text{ cm} \end{aligned}$$