

Using Calculator:

- 6 Work out 17% of 54.
Give your answer correct to 1 decimal place.

..... [3]

- (b) Increase £196 by 9%.

(b) £ [3]

- (c) Decrease 650 by 40%.

(c) [3]

- 17** At the start of 2014 Priya's house was worth £240 000.
The value of her house increased by 5% every year.

Work out the value of her house at the start of 2017.

£ **[3]**

- 12** The value of a car, £ V , is given by

$$V = 16\,500 \times 0.82^n$$

where n is the number of years after it is bought from new.

- (a)** Write down the value of the car when new.

(a) £ **[1]**

- (b)** Write down the annual percentage decrease in the value of the car.

(b) % **[1]**

- (c)** Show that the value of the car after 4 years is less than half its value when new. **[2]**

- 15 Ratna invests £1200 for 2 years in a bank account paying r % per year compound interest. At the end of 2 years, the amount in the bank account is £1379.02.

Calculate r .

$r =$ [4]

- 5 Mo's tyre pressure gauge shows a reading which is 12% higher than the actual pressure.

What is the actual pressure when Mo's gauge shows 38.64?

..... [3]

- 10 On a plane, $\frac{2}{5}$ of the passengers were British.

30% of the British passengers were men.
There were 36 British men on the plane.

Find the total number of passengers on the plane.

..... [5]

- 1 Shari buys a box of 60 candles for £125.
She sells the candles for £2.25 each.

Calculate her percentage profit.

..... % [4]

Don't use a calculator:

11 Theo invests £500 at a rate of 6% per year simple interest.

(a) Work out the interest he receives in one year.

(a) £ **[2]**

(b) Work out the value of his investment after 5 years.

(b) £ **[2]**