

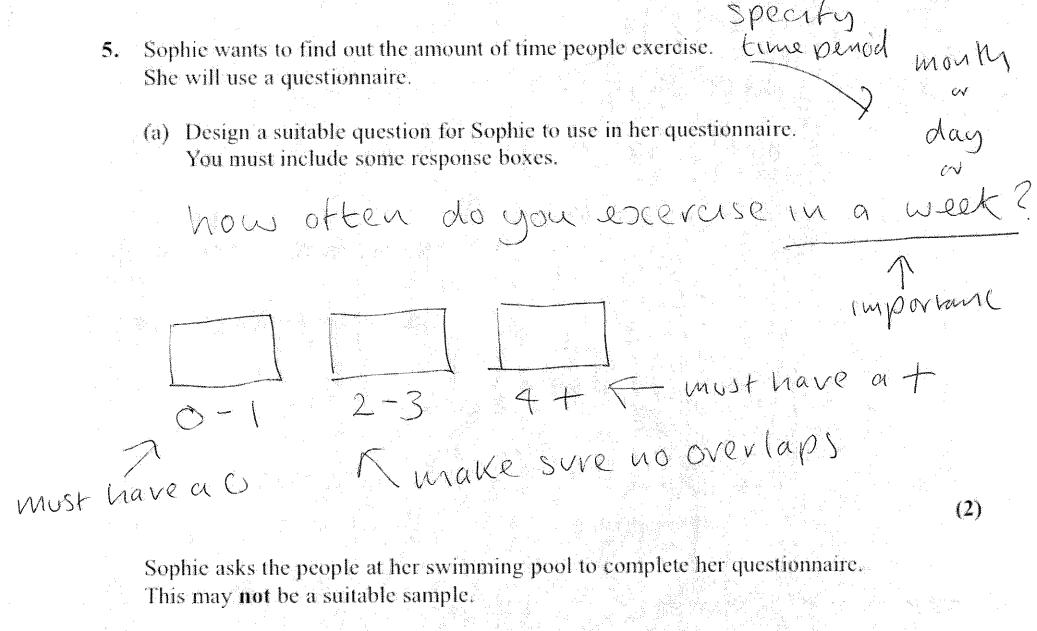
2. Use your calculator to work out

$$\frac{22.4 \times 14.5}{8.5 \times 3.2}$$

Write down all the figures on your calculator display.

(2)





(b) Give a reason why.

People at the pool exercise BIAS

Other people may not

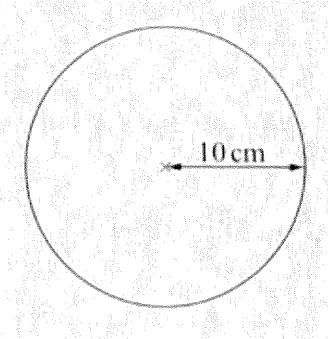


Diagram NOT accurately draw

The radius of a circle is 10 cm.

Work out the area of this circle.

Use 7 = 3.14

$$f = \pi \times 10^{\circ}$$

$$= 3.14 \times 100^{\circ}$$

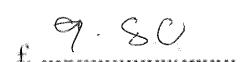
$$= 3.14 \times 100^{\circ}$$

(3)

5. Michael buys 3 cartons of milk.

The total cost of these 3 cartons of milk is £4.20

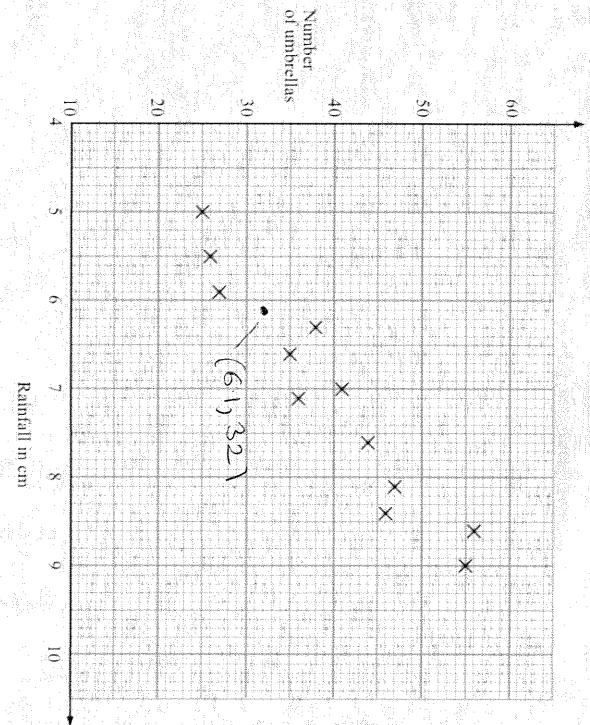
Work out the total cost of 7 of these cartons of milk.



3) (Tatal 3 marke)

Ç. Mr Wither sells umbrellas

rainfall, in cm, each month last year The scatter graph shows some information about the number of umbrellas he sold and the



During January, Mr Wither sold 32 umbrellas In January of this year, the rainfall was 6.1 cm

- Show this information on the scatter graph.
- Î.
- What type of correlation does this scatter graph show? 051 FIVE

- There are some sweets in a bag
- 18 of the sweets are toffees
- 12 of the sweets are mints.
- Write down the ratio of the number of toffees to the number of mints Give your rand in its simplest form

The ratio of the number of oranges to the number of apples is I The total number of oranges and apples is 54 There are some oranges and apples in a box.

- (b) Work out the number of apples in the box
- 4pples have SURVE

8. (a) Simplify
$$x^3 \times x^4$$

$$\mathcal{D}_{2} \times \mathcal{D}_{4} + \mathcal{D}_{6} \times \mathcal{D}_{4}$$

(b) Simplify
$$y^7 + y^2$$

$$0^{7-2} = 0^{5}$$

(c) Expand and simplify
$$3(2a+5)+5(a-2)$$

$$3(2a+5)+5(a-2)$$

(a) Expand and simplify
$$(v + 5)(v + 7)$$

13 Bob asked each of 40 friends how many minutes they took to get to work.

The table shows some information about his results.

Time taken (m minutes)	Frequency	mid-point	
		5	15
		15	120
		25	275
	9. 1	35	315
		45	405
Nork out an estimate for the mo	can time tak		30

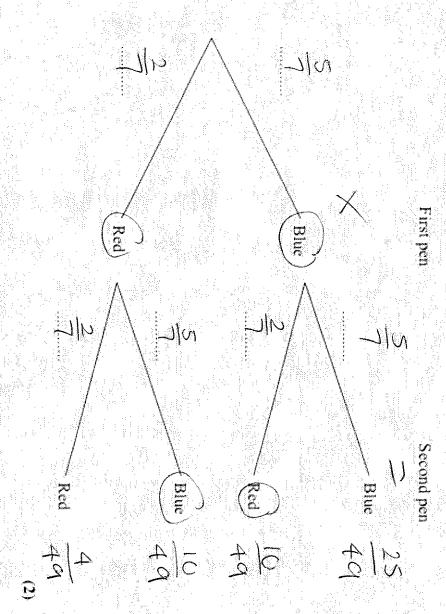
$$\frac{28 \cdot 25}{11^3 3^{100}}$$

5 of the pens are blue.2 of the pens are red.

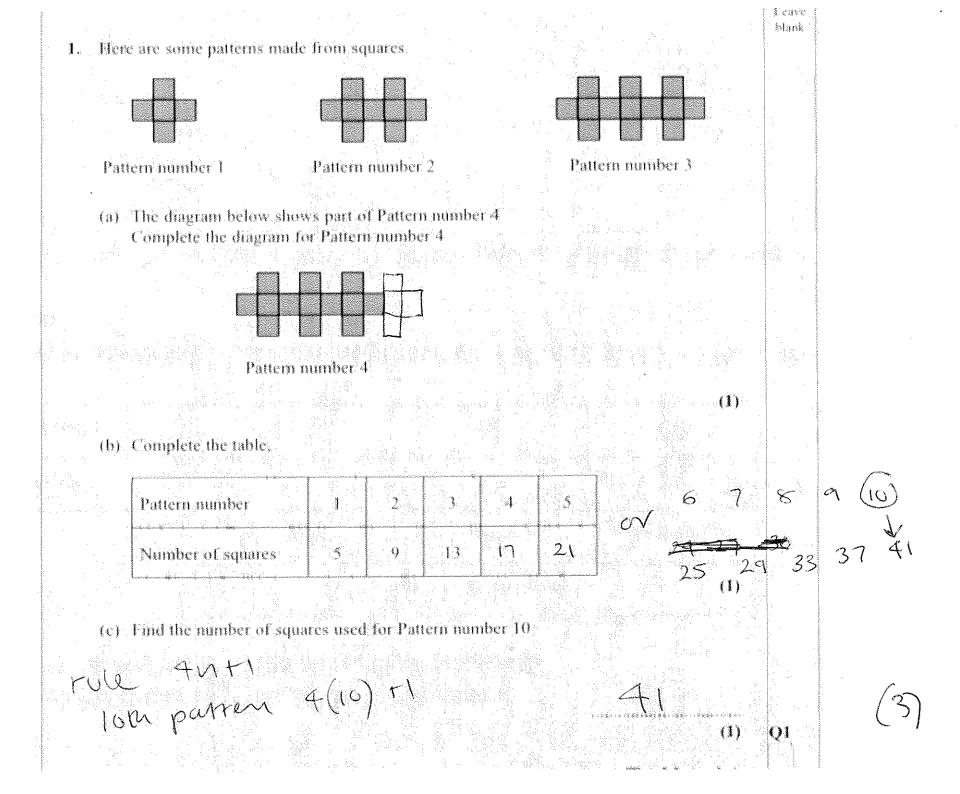
Emma puts the pen back in the box Emma takes at random a pen from the box and writes down its colour.

Then Emma takes at random a second pen from the box, and writes down its colour.

(a) Complete the probability tree diagram



9 Work out the probability that Emma takes exactly one pen of each colour from the



21. 258 students each study one of three languages. The table shows information about these students.

		mguage studied	
	German	French	Spanish
Male			(26)
Female		4.	62

A sample, stratified by the language studied and by gender, of 50 of the 258 student is taken.

(a) Work out the number of male students studying Spanish in the sample.

Spanish

male

26 × 50

258

Semple

3132

(b) Solve

$$39c - 10 = 3c + 3c$$
 $39c - 9c = 30 + 6$
 $29c = 40$
 $30c = 20$

6. (a) Simplify
$$7x + 2y - x + 3y$$

$$70c - 0c + 20 + 30$$
 $60c + 50$

(b) Solve
$$2x + 3 = 10$$

$$2x = 7$$

$$2x = 7$$

$$x = \frac{7}{2} = 3.5$$

- te was paid 4% per annum compound interest. Toby invested £4500 for 2 years in a savings account.
- How much did Toby have in his savings account after 2 years?

te was paid ? So per aministration compound afforms. asyl invested 2400 or a vents in a savings account

At the end of the 11 years be had 53445 51 in the savings account

(b) Work our the value of a

