	Year Group			Total
	9	10	11	
Boys	149	33	125	407
Girls	154	123	147	424
Total	303	256	272	831

1. The two-way table shows some information about the number of students in a school.

Complete the two-way table.

Pick at random 1) Prob (boy) = 407 831 2) $P_{105}(\gamma_{r10}) = \frac{256}{871}$ 3) If student is a sirl, find prob she is $7r10 = \frac{123}{424}$ 4) If student is a 7rq, find prob student is a boy $= \frac{149}{303}$

2. A factory makes three sizes of bookcase. The sizes are small, medium and large.

Each bookcase can be made from pine or oak or yew.

The two-way table shows some information about the number of bookcases the factory makes in one week.

	Small	Medium	Large	Total
Pine	7	12	4	23
Oak	10	16	8	34
Yew	3	8	2	13
Total	20	36	14	70

Complete the two-way table. Picken at random i) $P(Medium Oak) = \frac{16}{70}$ ii) $P(Medium Oak) = \frac{13}{70}$ iii) $P(Medium Oak) = \frac{20}{70}$ iii) $P(Medium Oak) = \frac{20}{70}$ iii) $P(Medium Oak) = \frac{13}{70}$ iii) $P(Medium Oak) = \frac{13}{70$ **3.** The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15	25	14	54
Girl	22	8	16	46
Total	37	33	30	100

(a) Complete the two-way table.

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.



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One of the girls is picked at random.

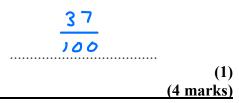
- (c) Work out the probability that this girl did **not** walk to school that day.
- **4.** The two-way table gives some information about how 100 children travelled to school one day.

	Walk	Car	Other	Total
Boy	15	25	14	54
Girl	22	8	16	46
Total	37	33	30	100

(a) Complete the two-way table.

One of the children is picked at random.

(b) Write down the probability that this child walked to school that day.



(3)

(2)

(6 marks)

(3)

8. Felicity asked 100 students how they came to school one day. Each student walked or came by bicycle or came by car.

49 of the 100 students are girls.10 of the girls came by car.16 boys walked.21 of the 41 students who came by bicycle are boys.

Work out the total number of students who walked to school.

	Walk	Car	cycle	ToT
Boys	16	14	21	51
Girls	9	10	20	49
Total	35	24	41	100

35

9. Janice asks 100 students if they like biology or chemistry or physics best.

38 of the students are girls.21 of these girls like biology best.18 boys like physics best.7 out of the 23 students who like chemistry best are girls.

Work out the number of students who like biology best.

	Bib	Che	Phy	Total
B035			18	
Girls	21	7	10	38
Total	49	23	28	100

49

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(4 marks)

10. 56 students were asked if they watched tennis yesterday.
20 of the students are boys.
17 girls watched tennis yesterday.
32 students did not watch tennis yesterday

One of these students is to be chosen at random.

Write down the probability that the student chosen will be a boy who watched tennis yesterday. Give your answer as a fraction in its simplest form.

	Watch	Didn't Wotch	Total
Boys	7	13	20
Gerls	17	19	36
Total		32	56

 $\frac{1}{56}$ = -(4 marks)