

Name: _____



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	Brown Hair	Blonde Hair	Total
Girls	8	6	14
Boys	9	7	16
Total	17	13	30

- a) How many girls have brown hair?
 b) How many boys have blonde hair?
 c) How many girls are there?
 d) How many people are there altogether?

8

7

14

30

	Rock	Dance	Pop	Total
Men	12	6	9	27
Women	2	8	13	23
Total	14	14	22	50

- e) How many Men like Rock music?
 f) How many Women like Dance music?
 g) How many people like Pop music?
 h) How many people are there altogether?

14

8

22

50

	Chinese	Pizza	Indian	Total
Under 20	11	23	17	51
Over 20	15	16	25	56
Total	26	39	42	107

- i) How many under 20s like Pizza?
 j) How many over 20s like Indian?
 k) How many people like Chinese?
 l) How many over 20s are there?

23

25

26

56

2) Complete the two way tables:

	Brown Hair	Blonde Hair	Total
Girls	8	6	14
Boys	9	7	16
Total	17	13	30

	Rock	Dance	Pop	Total
Men	13	6	2	21
Women	5	15	13	33
Total	18	21	15	54

	Chinese	Pizza	Indian	Total
Under 20	16	3	14	33
Over 20	12	14	21	47
Total	28	17	35	80

d) People were asked if they preferred football, rugby or cricket. Complete the two-way table using the given data:

- 24 males were asked
- 21 people prefer football
- 14 females preferred rugby
- 12 males preferred Cricket, which is 3 times more than women did
- Half as many men preferred rugby to women that preferred rugby

	Football	Rugby	Cricket	Total
Male	5	7	12	24
Female	16	14	4	34
Total	21	21	16	58

Use the two-way table about people's preferred sauces (complete the table first):

- e) If a person is chosen at random, calculate the probability that they prefer ketchup.
 f) If a person is chosen at random, calculate the probability that it's a boy who prefers mayo.
 g) A girl is chosen, calculate the probability that the girl chosen prefers mayo.

$$\frac{30}{75}$$

$$\frac{6}{75}$$

$$\frac{14}{46}$$

	Mayo	Brown	Ketchup	Total
Boys	6	12	11	29
Girls	14	13	19	46
Total	20	25	30	75

Exam question:

An incomplete two-way table shows the favourite subjects of 2 year groups.

a) Complete the table...

b) A random student is picked at random, What's the probability that their favourite subject is PE?

	Maths	Art	PE	Total
Year 8	24	30	48	102
Year 9	22	32	44	98
Total	46	62	92	200

$$\frac{92}{200}$$
