

Simple probability - two way tables and frequency tables

Name:	Class:	Date:
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Mark	/ 6	%
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1) The test results of 88 students is recorded in the two-way table below.

[1]

	Grade			Total
	A	B	C	
Male	15	20	13	48
Female	12	19	9	40
Total	27	39	22	88

One student is chosen at random.

Find the probability that the student is female and got a grade B.

2) The test results of 59 students is recorded in the two-way table below.

[1]

	Grade			Total
	A	B	C	
Male	15	18	5	38
Female	6	11	4	21
Total	21	29	9	59

One student is chosen at random.

Find the probability that the student is male.

3) The test results of a group of students is recorded in the two-way table below.

[1]

	Grade		
	A	B	C
Male	14	20	4
Female	3	6	2

One student is chosen at random.

Find the probability that the student got an A.

4) The scores for a group of students are recorded in the table below.

Score	Frequency
3	2
4	2
5	15
6	10
7	11
8	3
9	3

Find the probability of selecting a student

a) with a score of 8

b) with a score of 4

[1]

5) The scores for a group of students are recorded in the table below.

Score	Frequency
8	2
9	3
10	7
11	6
12	5
13	1
14	2

Find the probability of selecting a student

a) with a score less than or equal to 11

b) with a score greater than 13

[1]

6) The scores for a group of students are recorded in the table below.

Score	Frequency
7	3
8	1
9	20
10	8
11	17
12	9
13	2
14	3

Find the probability of selecting a student

a) with a score less than or equal to 11

b) with a score greater than 12

[1]

Solutions for the assessment Simple probability - two way tables and frequency tables

1) $P(\text{female and got a grade B}) = \frac{19}{88}$

2) $P(\text{is male}) = \frac{38}{59}$

3) $P(\text{got an A}) = \frac{17}{49}$

4) a) $P(\text{score of 8}) = 3/46$, b) $P(\text{score of 4}) = 1/23$

5) a) $P(\text{less than or equal to 11}) = 9/13$, b) $P(\text{greater than 13}) = 1/13$

6) a) $P(\text{less than or equal to 11}) = 7/9$, b) $P(\text{greater than 12}) = 5/63$