

- (c) Three coins are tossed. Each coin gives either a head or a tail.
- (i) Write down all the possible outcomes. For example, “H, T, H” or “head, tail, head” is one possible outcome.
 - (ii) Find the probability that the result is three tails.
 - (iii) Find the probability that the result includes no more than one head.
 - (iv) Find the probability that the result has at least one head.

LCOL, 2006, Q6

Pauline flips a fair coin 3 times, and records the outcomes.
She writes *H* for each head and *T* for each tail.

- (i) Complete the table below to show all of the possible outcomes.
Two outcomes have already been filled in for you.

<i>HHH</i>	
<i>HHT</i>	

- (ii) Find the probability of getting two heads and one tail.
- (iii) Jamie says: “You have the same probability of getting three heads as you do of getting two heads and one tail.”
Do you agree with Jamie? Give a reason for your answer.
- (iv) Max says: “You have the same probability of getting *HHH* as you do of getting *HTH*.”
Do you agree with Max? Give a reason for your answer.

JCHL, 2014, Q1

Compare and contrast aspects of literacy and numeracy in these examination questions:

Experimental Probability and Theoretical Probability

Places with the fewest men per 100 women in 2015

	MEN PER 100 WOMEN
Martinique	84.5
Latvia	84.8
Lithuania	85.3
Curaçao	85.6
Guadeloupe	86.0
Ukraine	86.3
Armenia	86.5
Russia	86.8
Belarus	86.8
Estonia	88.0
El Salvador	88.4
Hong Kong	88.5
Portugal	89.9
Aruba	90.6
Hungary	90.8
WORLD	101.8

Note: Bold red text indicates former Soviet republics.

Source: United Nations, DESA. World Population Prospects: The 2015 Revision.

PEW RESEARCH CENTER

Gender Ratio

Men: Women

Portugal

89.9: 100

Gender Ratio

Men: Women

World

<http://www.pewresearch.org/fact-tank/2015/08/14/why-the-former-ussr-has-far-fewer-men-than-women/>



An Phríomh-Oifig Staidrimh
Central Statistics Office

Female

Population 2011 (Number) 2,315,553

Population 2016 (Number) 2,405,736

Male

Population 2011 (Number) 2,272,699

Population 2016 (Number) 2,352,240

Gender Ratio

Men: Women

Ireland 2011

Gender Ratio

Men: Women

Ireland 2016