

1a) Yes

b) 16

c) HHTT TTHH HTHT THTH HTTH THHT

d) 6/16

e) 32

f) HHHTT HHTHT HHTTH HTHHT HTHTH HTTHH THHHT THHTH THTHH TTHHH

g) 10/32

h) 64

i) HHHHHT HHHHTH HHHTHH HHTHHH HTHHHH THHHHH

j) 6/64

2a) 5/36

b) 14/36

c) 46/1296 (This is a very tricky one.)

3a) $2819/10179 = 27.7\%$

b) $3616/10179 = 35.5\%$

c) $685/10179 = 6.7\%$

d) $5750/10179 = 56.5\%$

e) $892/2614 = 34.1\%$

f) $2011/5523 = 36.4\%$