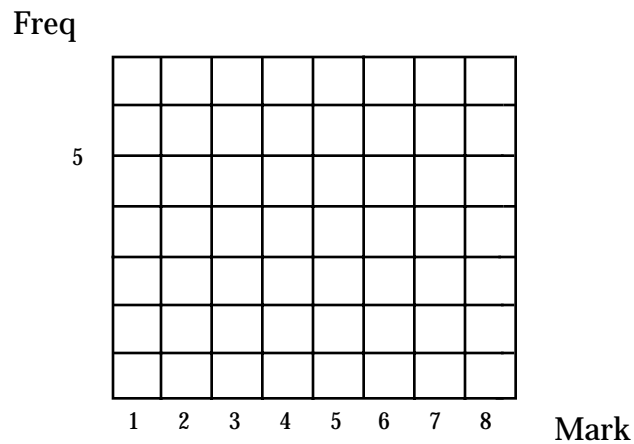


## Statistics Quiz 35

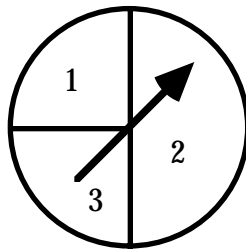
1) A teacher gives a quiz to a class. The quiz is out of 8 marks. The results are shown below.

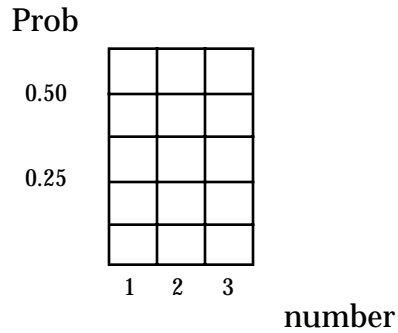
Mark	1	2	3	4	5	6	7	8
Frequency	0	1	2	4	7	6	3	2

- The number of students is \_\_\_\_\_ .
- Find the mean to one decimal place. \_\_\_\_\_ .
- Find the standard deviation to one decimal place. \_\_\_\_\_ .
- Sketch the frequency distribution below.



- Sketch the probability distribution for the spinner shown below.





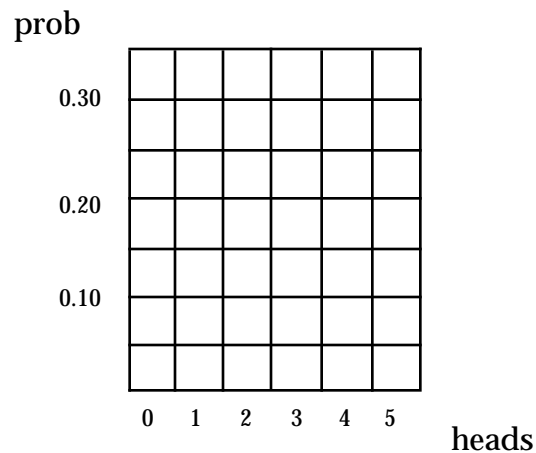
3) In an experiment, 36 coins are tossed. The number of tails is recorded. The experiment is repeated many times.

a) Find the mean number of tails tossed.

b) Find the standard deviation for the number of tails tossed.

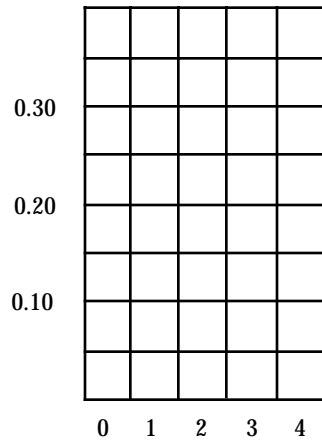
c) Explain the significance of the standard deviation for this experiment.

4) In an experiment, five coins are tossed. The experiment is repeated many times. Sketch the probability distribution for the number of heads shown.



5) In a particular game a player has a 35% chance of winning. Sketch the probability distribution for the number of games won by the player if 4 games are played.

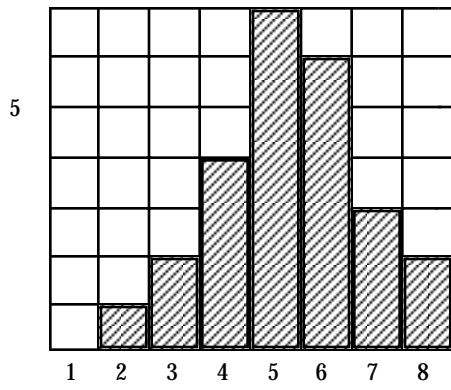
prob



games won

Answers: 1)a) 25, b) 5.3, c) 1.5, d)

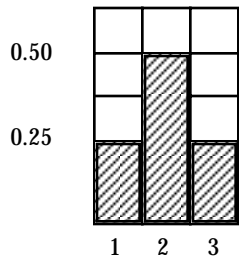
Freq



Mark

2)

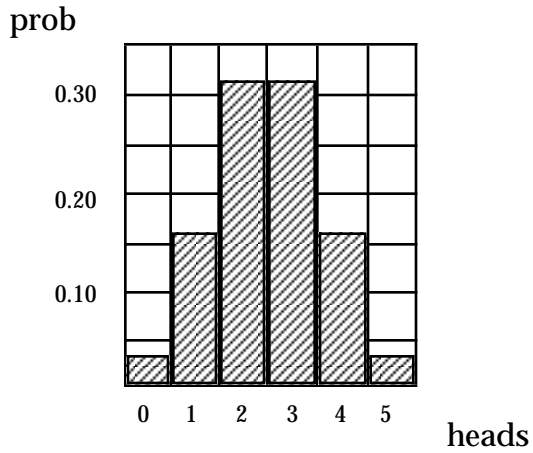
Prob



number

3)a) 18, b) 3, c) If many experiments are performed, then most of the time, the number of heads recorded will be between 15 and 21.,

4) The probabilities are: 0.03, 0.16, 0.31, 0.31, 0.16, 0.03.



5) The probabilities are: 0.18, 0.38, 0.31, 0.11, 0.02.

