10.1 Outcomes and Events

experiment - an investigation or procedure that has varying results

outcomes - all possible results of an experiment (even repetitions)

event - collection of outcomes, what actually happened

favorable outcome - what you want to happen

experiment performed at random - all possible outcomes are equally likely

<u>Ex</u>:

Possible outcomes

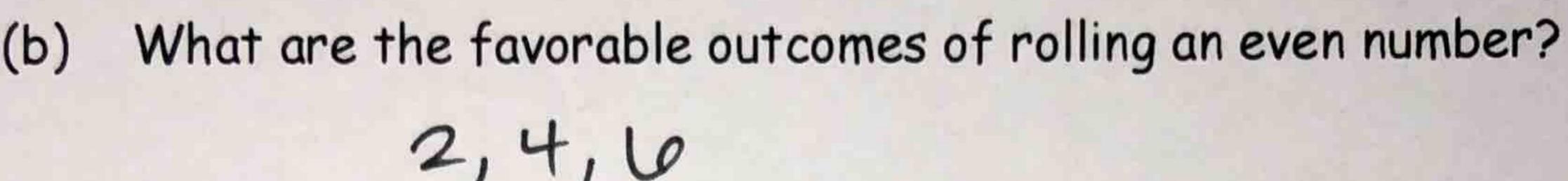


How many favorable outcomes are there for each of the following events?

- (a) Choosing green = 2 outcomes
- (b) Choosing blue = 1 Outcome
- (c) Choosing red = 1 Outcome
- (d) Choosing yellow = 1 Outcome
- (e) Choosing purple = 1 Outcome

Ex: You roll a number cube.

(a) What are the possible outcomes?



- (c) What are the favorable outcomes of rolling a number greater than 5?
- (d) What are the favorable outcomes of rolling a prime number? 2,3,5
- (e) What are the favorable outcomes of rolling a number divisible by 3?

 3,6
- (f) What are the favorable outcomes of rolling a multiple of 8?

Ex: You spin the spinner.

- (a) How many possible outcomes are there?
- (b) In how many ways can spinning a red occur?

 3 Ways
- (c) In how many ways can spinning not purple occur?

What are the favorable outcomes for not purple?

