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# Comparing experimental and theoretical probability worksheet



- Choose the numbers A-10 in a **deck of cards**. Let the Ace, two, and three represent the unemployed and 4-10 represent the employed people. Shuffle the cards, and randomly choose three cards.
- If you have a **graphing calculator**, you can use the random number generator. Let the numbers 1-3 represent the unemployed and 4-10 represent the employed. Let the calculator randomly choose three numbers to represent the 3 people chosen.
- Put three blue **marbles** in a can to represent the unemployed and 7 red marbles in a can to represent the employed. Randomly choose a marble from the can and let this represent choosing a person.

These are just a few methods that can be used to simulate this problem. As long as you have three things to represent an unemployed person and 7 different things to represent the employed people, then you have a simulation tool.

For this demonstration, I am going to choose the marbles as my simulation tool. Let's conduct our experiment!

Name: \_\_\_\_\_

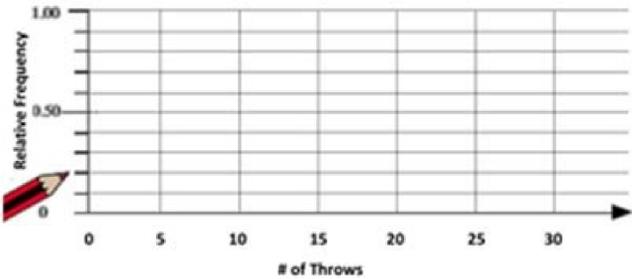
## Experimental Probability and Relative Frequency Investigation

Flip a coin 30 times and fill in the tables and graph below

Throw	1	2	3	4	5	6	7	8	9	10
Result										
Throw	11	12	13	14	15	16	17	18	19	20
Result										
Throw	21	22	23	24	25	26	27	28	29	30
Result										

Remember: relative frequency =  $\frac{\text{\# of tails}}{\text{\# of throws}}$

After...	5	10	15	20	25	30
Throws						
# of Tails						
Relative Frequency						



### Probability

- Roll a normal, 6-sided die. What is the probability that I get:
  - a 4
  - an even number
  - a number less than 2?
- The spinner shown is spun. What is the probability that the spinner lands on:
  - red
  - red or yellow
  - not blue?
- Put the letters from the word **EXERCISE** on cards, place them face down and then mix them up. Pick one card at random. What is the probability that the card is:
  - an X
  - a vowel
  - not an E?
- The probability that I win a 100m race is  $\frac{1}{10}$ . What is the probability that I don't win the race?
- The probability that it rains tomorrow is 0.14. What is the probability that it doesn't rain tomorrow?
- I record the colour of 40 cars that pass my house. The results are shown in the table below.
 

Colour	Silver	Black	Grey	Red
Frequency	23	10	6	1

 What is the probability that the next car to pass my house is black?
- I drop toast 100 times and record whether it lands butter side down or up. The results are shown in the table below.
 

Butter Side Up	Butter Side Down
Frequency 17	83

 What is the probability that the next time I drop the toast it lands butter side down?
- Pick a card at random from a standard deck of cards 20 times and note the suit. The table shows my results. State, with a reason, whether or not the following statements are true or false.
 

Suit	Hearts	Diamonds	Clubs	Spades
Frequency	9	7	4	0

  - There were no spades in the deck.
  - If I repeat the experiment more times I expect the frequencies to even out.

Name : \_\_\_\_\_ Score : \_\_\_\_\_  
 Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

### Probability with a Deck of Cards

- These questions are based on a standard deck of playing cards.
- Find the probability of drawing a face card that is a Club.
  - Find the probability of drawing a face card that is black.
  - Find the probability of drawing a Spade card on the first draw, replacing it and drawing a face card on the second draw.
  - Find the probability of drawing a Spade 5 through 9 on the first draw, replacing it and drawing a black card on the second draw.
  - Find the probability of drawing cards 2 through 3.
  - Find the probability of drawing a 4 through 9 on the first draw, replacing it and drawing a face card on the second draw.
  - Find the probability of drawing a black 7 through 9 on the first draw, replacing it and drawing a red card on the second draw.
  - Find the probability of drawing a black face card on the first draw, replacing it and drawing a red card on the second draw.
  - Find the probability of drawing a red 7 through 9 on the first draw, replacing it and drawing a Club card on the second draw.
  - Find the probability of drawing a King card on the first draw, replacing it and drawing a Club card on the second draw.

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