

Modeling Benchmark Percents and Fractions

For each scenario described below, choose ***at least one*** of the four bar models to represent it and fill in all the information you can.

1) 80 people were surveyed. 25% of them said that spring was their favorite season.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who prefer spring			
People who do not prefer spring			
Total			

2) Out of 60 people surveyed, 45 of them said they watch more than three hours of tv each day.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who watch more than 3 hours of tv			
People who do not watch more than 3 hours of tv			
Total			

3) Half of the people surveyed said they are happy in their jobs. 35 people said they are happy.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who said they are happy in their jobs			
People who did not say they are happy in their jobs.			
Total			

4) A job training program accepted 80% of the people who applied. 40 people were accepted.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who were accepted into the program			
People who were not accepted into the program			
Total			

5) Your goal is to take 10,000 steps in a day. Yesterday you reached only 60% of that.



Use the model you chose to fill in the information in the table below:

	Number of steps	Fraction of steps	Percent of steps
Steps you took yesterday			
Steps by which you fell short of your goal			
Total			

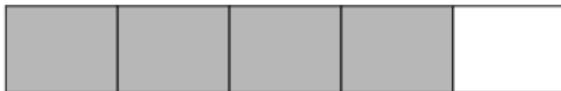
6) You also try to take 250 steps every hour. So far this hour, you have taken 100 steps.



Use the model you chose to fill in the information in the table below:

	Number of steps	Fraction of steps	Percent of steps
Steps you have taken so far this hour			
Steps you still need to take to make your goal			
Total			

7) In a survey, 75% of people said they prefer streaming video to cable. 180 people said they preferred streaming video.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who prefer streaming video			
People who do not prefer streaming video			
Total			

8) 144 out of 160 people surveyed said they check their phones at least five times every hour.



Use the model you chose to fill in the information in the table below:

	Number of people	Fraction of people	Percent of people
People who check their phones at least five times every hour			
People who do not check their phones at least five times every hour			
Total			

Challenge scenarios:

Create a model and a table for each of these scenarios.

- 1) 80% of the people who signed up for a yoga class showed up. 3 people didn't show.
- 2) A teacher reported that her class had 75% attendance on Monday. 3 students were absent that day.
- 3) 15 of the 60 children on a field trip forgot to pack a lunch.
- 4) 65% of 160 people surveyed said they eat breakfast every day.