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

80 people were surveyed	. 25% of them s	said that s	pring was	their favorit	e season			
								_
e the model you chose to f	ill in the inform	nation in th	ne table be	elow:				
	Number of	Fract	ion of	Percent of	f people			
	people	pe	ople			-		
People who								
prefer spring People who do						-		
not prefer spring								
Total								
. 6 ta.								
Out of 60 people surveye	u, 45 or them s	aid they w	raten more	e than three	nours of	r tv each	day.	
					•			
e the model you chose to f	ill in the inform	nation in th	ne table be	elow:				
	Number o	f people	Fraction	of people	Percer	nt of peo	ple	
People who watch more								
than 3 hours of tv								
People who do not water	h							
more than 3 hours of tv								
Total								

# Modeling Benchmark Percents and Fractions le surveyed said they are hanny in their jobs 35 people said they are hanny

e the model you chose to fil	l in the information in	the table below:	
	Number of people	Fraction of people	Percent of people
eople who said they are			
appy in their jobs			
People who did not say they are happy in their jobs.			
otal			
	ed 80% of the people v	who applied. 40 peop	le were accepted.
	ed 80% of the people v	who applied. 40 peop	le were accepted.
job training program accepte	ed 80% of the people v	who applied. 40 peop	le were accepted.
	ed 80% of the people v	who applied. 40 peop	le were accepted.
	ed 80% of the people v	who applied. 40 peop	le were accepted.
ob training program accepte			le were accepted.
ob training program accepte			le were accepted.
ob training program accepte			le were accepted.  Percent of people
e the model you chose to file	I in the information in	the table below:	
e the model you chose to fileople who were accepted ato the program	I in the information in	the table below:	
e the model you chose to file eople who were accepted into the program eople who were not	I in the information in	the table below:	
e the model you chose to file	I in the information in	the table below:	

Your goal is to take 10,000 step	s in a day. Yesterday	you reached only 60%	of that.
Jse 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			
ou also try to take 250 steps e			1.2.3.2,60
Jse 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			

		,	people said they prefer	rea str
Isa tha madal yay abasa ta fil	l in the information in	the table below		
se the model you chose to fil	Number of people	Fraction of people	Percent of people	
People who prefer streaming video	Number of people	Traction or people	referrent of people	
People who do not prefer streaming video				
Total				
11 + - £ 1 CO	al a a lal Albania albanalia Albania			
44 out of 160 people surveye	d said they check their	r phones at least five	times every hour.	
44 out of 160 people surveye	d said they check their	r phones at least five	times every hour.	
44 out of 160 people surveye	d said they check their	r phones at least five	times every hour.	
			times every hour.	
	I in the information in	the table below:		
Ise the model you chose to fil People who check their phones at least five times			Percent of people	
Jse the model you chose to fil  People who check their phones at least five times every hour  People who do not check their phones at least five times every hour	I in the information in	the table below:		

#### Challenge scenarios:

Create a	model a	ind a t	able for	each of	these	scenarios.
Ci Cutc u	111000010	iiia a t	abic ioi	Cucii Oi	LIICSC	3001101103

1) 80% of the people who signed up for a yoga class showed up. 3 people didn't show.

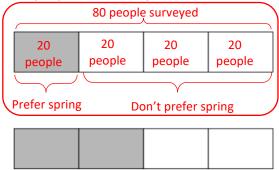
2) A teacher reported that her class had 75% attendance on Monday. 3 students were absent that day.

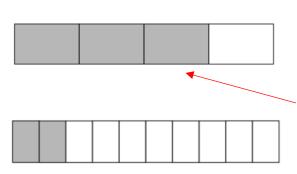
3) 15 of the 60 children on a field trip forgot to pack a lunch.

4) 65% of 160 people surveyed said they eat breakfast every day.

For each scenario described below, choose <u>at least one</u> 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.



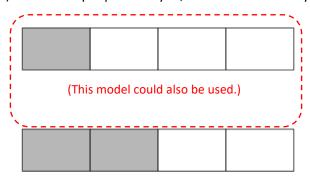


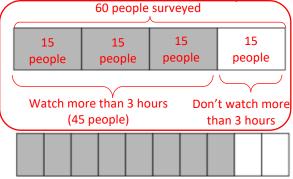
Note: This model can also be used, using the unshaded part to represent the people who prefer spring.

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	20	20/80 or ¼	25%
People who do not prefer spring	60	60/80 or ¾	75%
Total	80	80/80 or 1	100%

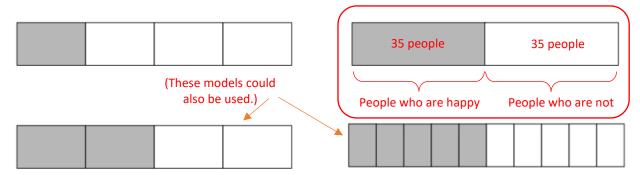
2) Out of 60 people surveyed, 45 of them said they watch more than three hours of tv each day.





	Number of people	Fraction of people	Percent of people
People who watch more	45	45/60 or ¾	75%
than 3 hours of tv			
People who do not watch	15	15/60 or ¼	25%
more than 3 hours of tv			
Total	60	60/60 or 1	100%

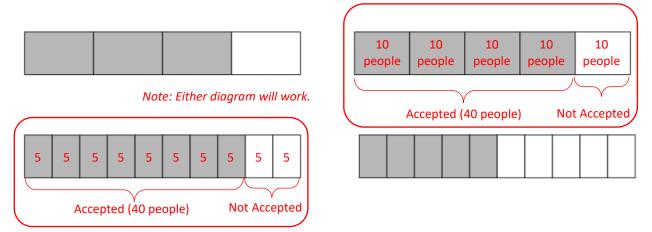
3) Half of the people surveyed said they are happy in their jobs. 35 people said they are happy.



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

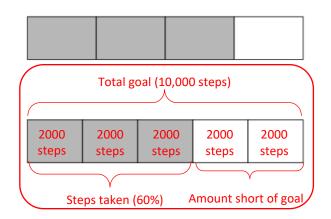
	Number of people	Fraction of people	Percent of people
People who said they are	35	35/70 or ½	50%
happy in their jobs			
People who did not say they	35	35/70 or ½	50%
are happy in their jobs.			
Total	70	70/70 or 1	100%

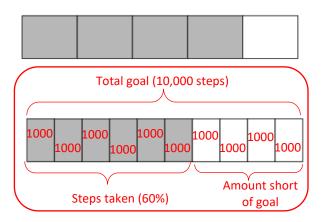
4) A job training program accepted 80% of the people who applied. 40 people were accepted.



	Number of people	Fraction of people	Percent of people
People who were accepted	40	40/50 or 8/10 or	80%
into the program		4/5	
People who were not	10	10/50 or 2/10 or	20%
accepted into the program		1/5	
Total	50	50/50 or 1	100%

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

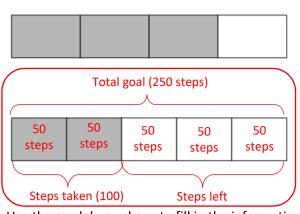


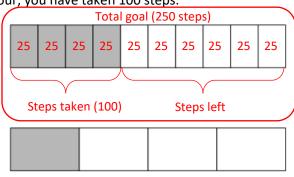


Use the model you chose to fill in the information in the table below:

	Number of steps	Fraction of steps	Percent of steps
Steps you took yesterday	6000	6000/10000 or 6/10 or 3/5	60%
Steps by which you fell short of your goal	4000	4000/10000 or 4/10 or 2/5	40%
Total	10000	10000/1000 or 1	100%

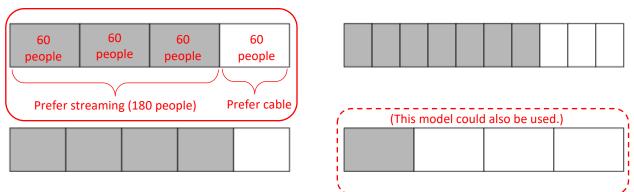
6) You also try to take 250 steps every hour. So far this hour, you have taken 100 steps.





	Number of steps	Fraction of steps	Percent of steps
Steps you have taken so far this hour	100	100/250 or 4/10 or 2/5	40%
Steps you still need to take to make your goal	150	150/250 or 6/10 or 3/5	60%
Total	250	250/250 or 1	100%

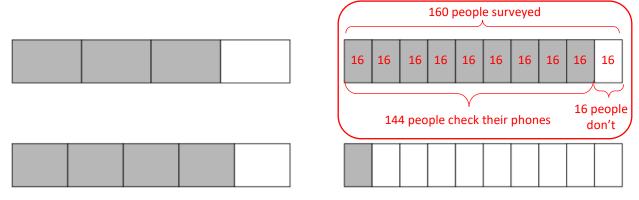
7) In a survey, 75% of people said they prefer streaming video to cable. 180 people said they preferred streaming video.



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	180	180/240 or ¾	75%
streaming video			
People who do not prefer	60	60/240 or ¼	25%
streaming video			
Tatal	240	240/240 or 1	100%
Total			

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

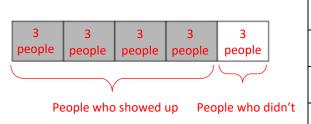


	Number of people	Fraction of people	Percent of people
People who check their phones at least five times every hour	144	144/160 or 9/10	90%
People who do not check their phones at least five times every hour	16	16/160 or 1/10	10%
Total	160	160/160 or 1	100%

#### Challenge scenarios:

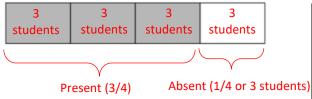
Create a model and a table for each of these scenarios.

1) 80% of the people who signed up for a yoga class showed up. 3 people didn't show.



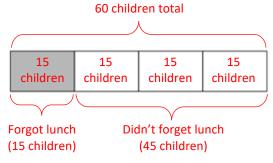
	Number of people	Fraction of people	Percent of people
People who showed up	12	12/15 or 4/5	80%
People who didn't show up	3	3/15 or 1/5	20%
Total	15	15/15 or 1	100%

2) A teacher reported that her class had 75% attendance on Monday. 3 students were absent that day.



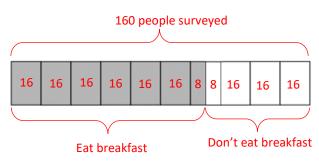
	Number of	Fraction of	Percent of
	students	students	students
Present	9	9/12 or ¾	75%
Absent	3	3/12 or ¼	25%
Total	12	12/12 or 1	100%

3) 15 of the 60 children on a field trip forgot to pack a lunch.



	Number of children	Fraction of children	Percent of children
Forgot lunch	15	15/60 or ¼	25%
Remembered lunch	45	45/60 or ¾	75%
Total	60	60/60 or 1	100%

4) 65% of 160 people surveyed said they eat breakfast every day.



	Number	Fraction of	Percent of
	of people	people	people
People who eat			
breakfast every	104	104/160	65%
day			
People who don't			
eat breakfast	56	56/160	35%
every day			
Total	160	160/160 or 1	1000/
Total	160	160/160 or 1	100%