

The company still undecided between two possible marketing campaigns. In order to determine which promotion has the greater effect on sales, a different promotion is used at each location and weekly sales are recorded for the first four weeks.																			
We run A/B testing to help company decide which promotion has the greater effect on sales.																			
								The check box below use to random sampling as the simulation.											
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Dataset			
Promotion	week	SalesInThousands	
2	1	33.73	
2	2	35.67	
2	3	29.03	
2	4	39.25	
1	1	27.81	
1	2	34.67	
1	3	27.98	
1	4	27.72	
1	1	39.28	
1	2	39.8	
1	3	24.77	
1	4	30.98	
1	1	30.37	
1	2	24.82	
1	3	37.47	
1	4	23.35	
2	1	32.9	
2	2	22.18	
2	3	42.98	
2	4	26.68	
1	1	30.08	
1	2	28.62	
1	3	25.4	
1	4	27.26	
1	1	34.27	
1	2	29.3	
1	3	23.93	
1	4	35.16	

2	1	33.42	
2	2	37.93	
2	3	33.85	
2	4	40.25	
2	1	61.59	
2	2	63.64	
2	3	54.68	
2	4	61.24	
2	1	62.93	
2	2	58.77	
2	3	70.6	
2	4	65.06	
2	1	59.76	
2	2	66.11	
2	3	62.16	
2	4	64.04	
2	1	59.65	
2	2	57.04	
2	3	59.73	
2	4	56.72	
2	1	58.55	
2	2	62.19	
2	3	53.14	
2	4	62.27	
2	1	86.14	
2	2	82.56	
2	3	79.36	
2	4	77.17	
2	1	89.7	
2	2	78.43	
2	3	84.05	

2	4	81.18	
1	1	87.43	
1	2	81.79	
1	3	88.12	
1	4	75.29	
2	1	83.02	
2	2	90.3	
2	3	85.18	
2	4	89.77	
2	1	82.64	
2	2	82.89	
2	3	82.13	
2	4	88.91	
2	1	87.7	
2	2	81.16	
2	3	81.58	
2	4	94.21	
2	1	96.48	
2	2	84.13	
2	3	91.98	
2	4	81.72	
1	1	88.64	
1	2	81.37	
1	3	82.14	
1	4	79.64	
2	1	84.34	
2	2	87.9	
2	3	76.12	
2	4	82.72	
1	1	73.22	
1	2	75.88	

1	3	78.01	
1	4	80.17	
1	1	82.65	
1	2	77.39	
1	3	80.83	
1	4	80.75	
2	1	94.89	
2	2	74.75	
2	3	93.63	
2	4	80.82	
2	1	91.61	
2	2	79.02	
2	3	86.11	
2	4	82.88	
1	1	66.22	
1	2	82.86	
1	3	83.4	
1	4	75.61	
1	1	79.53	
1	2	74.03	
1	3	78.53	
1	4	76.71	
1	1	49.61	
1	2	43.69	
1	3	54.49	
1	4	61.25	
2	1	51.47	
2	2	53.47	
2	3	46.83	
2	4	56.7	
1	1	47.89	

1	2	52.37	
1	3	49.11	
1	4	52.88	
1	1	46.98	
1	2	53.41	
1	3	36.17	
1	4	55.98	
1	1	51.87	
1	2	58.01	
1	3	47.93	
1	4	51.33	
2	1	52.23	
2	2	51.68	
2	3	46.22	
2	4	46.03	
1	1	40.4	
1	2	50.28	
1	3	52.72	
1	4	38.3	
1	1	51.79	
1	2	42.56	
1	3	44.64	
1	4	45.11	
1	1	42.15	
1	2	42.59	
1	3	49.56	
1	4	39.25	
1	1	48.18	
1	2	48.25	
1	3	46.42	
1	4	43.77	

1	1	45.3	
1	2	48.84	
1	3	45.08	
1	4	44.67	
2	1	45.56	
2	2	55.19	
2	3	37.84	
2	4	50.07	
1	1	47.33	
1	2	45.42	
1	3	44.31	
1	4	40.26	
1	1	43.27	
1	2	48.33	
1	3	44.14	
1	4	51.5	
2	1	50.11	
2	2	55.59	
2	3	54.37	
2	4	51.91	
1	1	46.26	
1	2	47.71	
1	3	54.09	
1	4	46.89	
2	1	57.37	
2	2	55.53	
2	3	51.16	
2	4	57.06	
2	1	50.59	
2	2	48.64	
2	3	50.55	

2	4	49.08	
2	1	24.75	
2	2	41.47	
2	3	35.1	
2	4	34.33	
1	1	31.94	
1	2	29.64	
1	3	33.64	
1	4	36.05	
1	1	36.7	
1	2	41.53	
1	3	27.71	
1	4	37.2	
1	1	32.21	
1	2	38.41	
1	3	37.9	
1	4	44.84	
1	1	37.45	
1	2	35.46	
1	3	31.85	
1	4	19.26	
1	1	38.65	
1	2	17.34	
1	3	33.14	
1	4	23.44	
2	1	37.17	
2	2	30.52	
2	3	32.51	
2	4	29.12	
1	1	32.77	
1	2	30.26	

1	3	27.55	
1	4	27.37	
2	1	47.48	
2	2	39.41	
2	3	43.29	
2	4	42.59	
2	1	34.46	
2	2	40.13	
2	3	32.18	
2	4	43.73	
2	1	49.01	
2	2	46.29	
2	3	37.14	
2	4	42.82	
2	1	47.22	
2	2	35.24	
2	3	47.22	
2	4	43.15	
1	1	40.71	
1	2	38.26	
1	3	41.44	
1	4	25.7	
2	1	40.29	
2	2	48.35	
2	3	43.26	
2	4	44.2	
2	1	46.14	
2	2	41.12	
2	3	45.03	
2	4	38.85	
2	1	41.96	

2	2	42.27	
2	3	38.51	
2	4	43.51	
1	1	49.39	
1	2	40.25	
1	3	42.46	
1	4	31.62	
2	1	40.43	
2	2	51.15	
2	3	42.5	
2	4	52.76	
2	1	47.63	
2	2	52.21	
2	3	40.17	
2	4	48.36	
1	1	38.56	
1	2	37.29	
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1	4	33.35	
1	1	48.5	
1	2	36.8	
1	3	48.32	
1	4	41.54	
2	1	53.56	
2	2	49.72	
2	3	48.77	
2	4	46.84	
2	1	49.67	
2	2	49.98	
2	3	49.5	
2	4	47.35	

2	1	50.26	
2	2	52.05	
2	3	51.14	
2	4	46.3	
1	1	32.61	
1	2	57.27	
1	3	37.32	
1	4	41.22	
1	1	39.73	
1	2	50.3	
1	3	40.16	
1	4	41.37	
2	1	54.79	
2	2	52.39	
2	3	42.15	
2	4	49.63	
2	1	48.06	
2	2	51.09	
2	3	44.19	
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1	3	58.1	
1	4	44.16	
2	1	44.66	
2	2	53.78	
2	3	43.91	
2	4	52.41	
2	1	50.94	
2	2	49.38	
2	3	63.98	

2	4	45.84	
2	1	51.01	
2	2	56.16	
2	3	45.77	
2	4	46.47	
1	1	46.02	
1	2	51.09	
1	3	51.68	
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2	2	59.8	
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2	4	45.43	
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2	4	50.05	
1	1	51.09	
1	2	54.82	
1	3	44.16	
1	4	53.95	
2	1	54.34	
2	2	60.24	

2	3	56.39	
2	4	58.33	
1	1	51.26	
1	2	51.73	
1	3	51.35	
1	4	41.85	
1	1	45.21	
1	2	55.02	
1	3	45.35	
1	4	47.06	
1	1	43.59	
1	2	46.03	
1	3	47.22	
1	4	51.41	
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1	2	46.2	
1	3	51.52	
1	4	49.71	
2	1	53.5	

2	2	56.34	
2	3	51.83	
2	4	50.2	
1	1	50.2	
1	2	45.75	
1	3	44.29	
1	4	49.41	