Enrich

Mean

Use the numbers in the box to complete Exercises 1–7. Once you have used a number, cross it out. You may not use it again.

1	2	6	5	1	6	4	7	9	5
10	98	96	79	96	25	75	32	53	50
71	22	81	76	97	44	36	20	72	36
31	40	50	49	18	29	74	96	42	34
198	173	367	379	988	637	724	706	251	600
546	468	809	343	702	706	867	331	828	615

When you have completed Exercises 1–7, compare your answers with a classmate. For each of Exercises 1–6, give one point to the person who comes closer to the goal. For Exercise 7, give one point for each person who finds the mean of the data.

1-7. See students' work.

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1. Choose seven numbers.

   Goal: greatest mean

   Numbers: _____

   Mean: _____

2. Choose six numbers.

   Goal: least mean

   Numbers: _____

   Mean: _____

3. Choose eight numbers.

   Goal: least mean

   Numbers: _____

   Mean: _____

4. Choose five numbers.

   Goal: greatest mean

   Numbers: _____

   Mean: _____

5. Choose seven numbers.

   Goal: least mean

   Numbers: _____

   Mean: _____

6. Choose nine numbers.

   Goal: greatest mean

   Numbers: _____

   Mean: _____

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7. Find the mean of the remaining numbers. _____

8. Describe one strategy you used in this game.
Sample answer: Choose small numbers to get a mean that is low and big numbers to get a mean that is high.