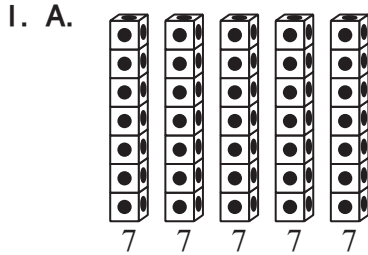


Student Activity Book

Practice Finding Means

Questions 1–4 (SAB pp. 153–156)



Mean is 7 cubes.

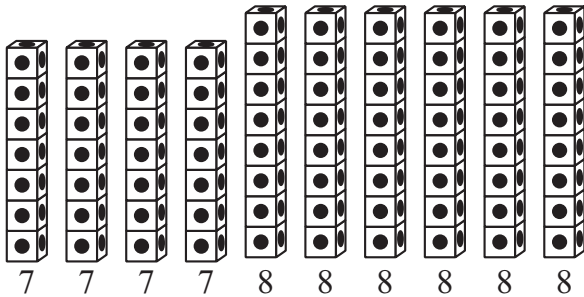
B.

$$\begin{array}{ccccccccc} \boxed{6} & + & \boxed{5} & + & \boxed{8} & + & \boxed{10} & + & \boxed{6} \\ \hline \boxed{=} & \div & \boxed{5} & = \end{array}$$

7 cubes

C. Answers should be the same.

2. A.



Mean is estimated as 8 words since most towers have 8 cubes after evening them out.

B.

$$\begin{array}{ccccccccc} \boxed{9} & + & \boxed{6} & + & \boxed{9} & + & \boxed{10} & + & \boxed{6} \\ \hline \boxed{+} & \boxed{8} & + & \boxed{10} & + & \boxed{4} & + & \boxed{7} & + \\ \hline \boxed{7} & = & \div & \boxed{10} & = \end{array}$$

Mean to the nearest word is 8 words.

C. If students rounded their answers for part B, answers should be the same.

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Name \_\_\_\_\_ Date \_\_\_\_\_

Practice Finding Means

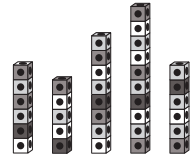
✓ Self-Check

Use the questions in the menu to choose practice.

Practice Menu

Can I Do This?	Working On It! I could use some extra help.	Getting It! I just need some more practice.	Got It! I'm ready for a challenge.
Find the mean using cubes.	Q# 1	Q# 2	Q# 4
Find the mean using a calculator.	Q# 2	Q# 3	Q# 3

1. Luis pulled five handfuls of connecting cubes from a paper bag and built towers with the cubes. He built the five towers shown in the picture.



A. Use connecting cubes, pennies, or blocks to find the mean number of cubes in Luis's towers. Draw a picture or tell how you found the mean.

B. Find the mean using a calculator. Show the calculator keystrokes you used.

C. Were your answers for parts A and B the same? If not, explain why they were different.

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The Meaning of the Mean

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Name \_\_\_\_\_ Date \_\_\_\_\_

2. Maya took a spelling test every week for ten weeks. The data table shows the number of words out of 10 she spelled correctly on each test.

Test	Words Correct
Test 1	9
Test 2	6
Test 3	9
Test 4	10
Test 5	6
Test 6	8
Test 7	10
Test 8	4
Test 9	7
Test 10	7

A. Use connecting cubes, pennies, or blocks to find the mean number of correctly spelled words. Show or tell how you found the mean.

B. Find the mean using a calculator. Show the calculator keystrokes you used.

C. Were your answers for parts A and B the same? If not, explain why they were different.

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**Answer Key • Lesson 3: The Meaning of the Mean**

Name \_\_\_\_\_ Date \_\_\_\_\_

3. The data table for a group of students from the experiment Arm Span vs. Height is shown below.

A. Find the mean arm span to the nearest inch. Show or tell how you found your answer.

Jerome's Group		
Name	S Arm Span (in inches)	H Height (in inches)
Jerome	49	50
Keenya	54	55
Frank	59	57
Luis	58	58
Roberto	55	57
Ana	52	52
Jacob	56	56

B. Find the mean height to the nearest inch. Show or tell how you found your answer.

C. Look back at your answers. Are they reasonable? Show or tell how you know.

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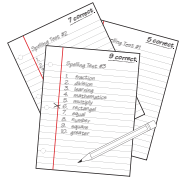
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3. A. 55 inches. Strategies will vary.  
 B. 55 inches. Strategies will vary.  
 C. Answers may vary. Students may say answers are reasonable because the mean arm span is very close to the mean height, or that 55 inches is equal to 4 ft 9 inches, which is a typical height for a fourth-grader.

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Name \_\_\_\_\_ Date \_\_\_\_\_

4. John took three spelling tests with ten words on each test. He spelled 5 words correctly on the first test, 7 words on the second test, and 9 words on the third test.



A. What is the mean number of words John spelled correctly?

B. John has three more tests to take. If he wants to keep his mean score the same as it is now, how many words should he spell correctly on each of his next three tests? Show or tell how you found your answer. (Hint: You can use cubes, pennies, or blocks to stand for the correct words on each test.)

C. Instead of keeping his average the same, John decides he wants to raise his mean score to 8 words. How many words should he spell correctly on each of his next three tests? Show or tell how you found your answer.

D. Is there more than one correct answer to the question in Questions 4B and 4C? If so, how many different answers can you find?

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4. A. 7 words  
 B. Answers may vary. The sum of the next three scores should be 21. Possible combinations (in any order) of test scores are:  
 7, 7, 7                                      7, 6, 8  
 7, 5, 9                                      7, 4, 10  
 10, 5, 6                                      10, 3, 8  
 10, 9, 2                                      9, 6, 6  
 9, 8, 4                                      9, 9, 3  
 9, 10, 2                                      8, 10, 3  
 8, 9, 4                                      8, 8, 5
- C. Answers may vary. The sum of the next three scores should be 27. Possible combinations (in any order) of test scores are: 9, 9, 9    10, 9, 8    10, 10, 7.
- D. There is more than one possible answer. See above.

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