

APPENDIX A:
SCORING KEYS

**NJ ASK
Grade 3 Mathematics
Scoring Keys**

Item #	Correct Answer	Standard, Grade level	Strand	CPI	Mathematical Processes
1	B	1, 3 rd	B	4	Problem solving
2	B	1, 3 rd	B	4	Problem solving
3	A	1, 3 rd	C	2	Problem solving, reasoning
4	C	1, 3 rd	C	2	Problem solving, reasoning
5	A	1, 3 rd	A	6	Reasoning, representation
6	D	2, 3 rd	E	1	Problem solving, reasoning, representation
7	B	4, 3 rd	D	2	Connections, reasoning, representation
8	C	2, 3 rd	A	3	Reasoning
9	B	3, 3 rd	C	2	Problem solving, reasoning
10	B	4, 3 rd	A	2	Reasoning, representation
11	C	3, 3 rd	A	1	Reasoning
12	D	4, 3 rd	B	2	Problem solving
13	D	2, 3 rd	D	2	Reasoning
14	A	1, 3 rd	A	2	Reasoning
15	D	2, 3 rd	B	1	Reasoning
16	C	3, 3 rd	C	2	Problem solving
17	B	4, 3 rd	A	2	Reasoning, connections
18	B	3, 3 rd	B	1	Problem solving, reasoning
19	rubric	2, 3 rd	A	2	Communication, reasoning, representation

APPENDIX B:
ITEM-SPECIFIC SCORING RUBRIC FOR THE OPEN-ENDED QUESTION

**NJ ASK MATH Grade 3
Cube and Pyramid
Scoring Rubric**

3 points

The student

- identifies the shapes
- indicates the correct number of faces for each shape
- indicates one similarity (size, flat surface, straight lines, etc.)
- indicates one difference (number of faces, name, kind of shape, etc.)

Sample 3 point response:

- cube and pyramid
- the cube has 6 faces, the pyramid has 5 faces
- both shapes have straight lines (many acceptable answers)
- both shapes have a different number of faces (many acceptable answers)

2 points

The student

- identifies the shapes (Cube and Pyramid)
 - indicates the Cube has 6 faces **and/or** the Pyramid has 5 faces
 - indicates one similarity **or** indicates one difference
- OR**
- identifies the shapes (Cube and Pyramid)
 - indicates the Cube has 6 faces **and** the Pyramid has 5 faces
 - has an unclear explanation for similarities and differences, or has not given an answer for these two bullets
- OR**
- identifies the shapes (Cube and Pyramid)
 - indicates the Cube has 6 faces **or** the Pyramid has 5 faces
 - indicates one similarity **and** indicates one difference
- OR**
- identifies the shapes (Cube and Pyramid)
 - does not indicate the correct number of faces for either shape
 - indicates one similarity
 - indicates one difference
- OR**
- identifies 1 of the shapes correctly (Cube or Pyramid)
 - indicates the Cube has 6 faces **and/or** the Pyramid has 5 faces
 - indicates one similarity
 - indicates one difference
- OR**
- identifies 1 of the shapes correctly (Cube or Pyramid)
 - indicates the Cube has 6 faces **and** the Pyramid has 5 faces
 - indicates one similarity **or** one difference

OR

- does not correctly identify the shapes as a Cube or a Pyramid
- indicates the cube figure has 6 faces **and** the pyramid figure has 5 faces
- indicates one similarity **and** one difference

1 point

The student

- identifies the shapes (Cube and Pyramid)
- indicates the Cube has 6 faces **or** the Pyramid has 5 faces
- does not indicate a similarity or difference

OR

- identifies 1 of the figures (Cube or Pyramid)
- indicates the Cube has 6 faces **or** the Pyramid has 5 faces
- indicates a similarity **or** difference

OR

- identifies the shapes (Cube and Pyramid)
- does not indicate the correct number of faces for either figure
- indicates one similarity **or** one difference

OR

- identifies 1 of the shapes (Cube or Pyramid)
- indicates the Cube has 6 faces **and/or** the Pyramid has 5 faces
- does not indicate one similarity or one difference

OR

- identifies 1 of the shapes (Cube or Pyramid)
- does not indicate a correct number of faces for either shape
- indicates one similarity **and/or** one difference

OR

- does not identify the shapes correctly
- indicates one figure has 6 faces **and/or** the other figure has 5 faces
- indicates one similarity **or** one difference

OR

- does not identify the shapes
- indicates one figure has 6 faces **or** the other figure has 5 faces
- indicates one similarity **and** one difference

OR

- identifies the shapes (Cube and Pyramid)

OR

- indicates the Cube has 6 faces **and** the Pyramid has 5 faces

OR

- indicates one similarity **and** one difference

0 points

- The response shows insufficient understanding of the problem's mathematical concepts.