

Open – Ended Assessment Items: Scoring Rubric

Dear Parents,

Have your child to use another sheet to answer the question(s). Your child should return the signed worksheet to the teacher to receive credit. Your child's understanding of mathematics will be scored on how well your child:

- Explain and organize the work.
- Use tables, charts, graphs or diagrams in the explanation, if possible.
- Show the solutions in more than one way, if possible.

Scoring Rubric

0 – Response indicates no appropriate mathematical reasoning.

1. Response indicates some appropriate mathematical reasoning, but fails to address the item's main mathematical ideas.
2. Response indicates substantial and appropriate mathematical reasoning, but is lacking in some minor way(s)
3. Response is correct and the underlying reasoning process is appropriate and clearly communicated.

Question #17

Patterns, Functions, Algebra/Problem Solving & Reasoning

Josie has \$80.00 to spend on an aquarium and fish. She wants at least 5 fish in her tank. She wants to be sure that a damsel (\$5 each) and an algae eater (\$3 each) are part of the selection.

- Aquarium: 5 gallons - \$60; 10 gallons - \$65; 15 gallons - \$75
- Fish: Guppies - \$2 each; Alga Eaters - \$3 each; Mollies - \$2 each; Damsels - \$5 each
- For every 5 gallons of water, a tank can hold 6 guppies, or 6 mollies, or 1 algae eater, or 2 damsels.

Make a plan to show Josie how she can buy the fish and the right size tank. You must show the cost of each item and the total amount she will spend. She does not have to spend all \$80.00.