

MeTEOR Performance Task

Third Grade

Mathematics
Snow Cones

Task/Question 2:

- A.** Week 2 there was a greater demand for snow cones. Ms. Miller, Ms. Hampton and Ms. Rodriguez each wanted 25 SpongeBob snow cones for their students. The school principal wanted 25 strawberry snow cones to give away to students being helpful around school and your class sold 25 blueberry and 25 strawberry snow cones to students after school. How many snow cones did your class sell week 2?

- B.** Make a model to represent the total number of snow cones sold in week two.

- C.** How many snow cones has your class sold all together from week 1 and week 2? Show your work.

Task/Question 3:

The local grocery store is helping supply all the items needed to operate the Snow Cone Shack. Their prices are listed in the table below:

<u>Snow Cone Machine</u> (cost for renting per week)	<u>Cups</u> (100)	<u>Ice – 10 lbs.</u> (10 lbs. of ice makes 25 snow cones)	<u>Strawberry Flavoring - Quart</u> (1 quart makes 50 snow cones)	<u>Blueberry Flavoring - Quart</u> (1 quart makes 50 snow cones)	<u>SpongeBob (pineapple) Flavoring - Quart</u> (1 quart makes 50 snow cones)	<u>Spoons</u> (100)
\$25.00	\$ 4.40	\$1.79	\$3.00	\$3.00	\$3.80	\$2.50

- A. How much does your class owe the local grocery store for supplies for week 1 (based on information in Task/Question 1)?

- B. How much does your class owe the local grocery store for supplies for week 2 (based on information in Task/Question 2)?

- C. After two weeks of selling Snow Cones, how much profit has your class made for the class trip?

- D. How would you organize the information to show the correct amounts? Show your work on a separate piece of paper.

Task/Question 4:

- A.** Week 3 your class sold a total of 135 snow cones but your teacher forgot to write down what flavors were sold. Create two different ways you could have sold 135 snow cones.
- B.** With your math partner discuss your two possible ways your class might have sold the 135 snow cones. Be prepared to share out “I agree with (student name) because...”

Task/Question 5: Science Connection Task

Imagine if you could freeze water instantly to make your snow cones faster!! Everyone knows that water freezes at 0 °C - or does it? When water freezes, it needs a nucleus in order for the solid crystals to form and become ice. Water is typically full of particles and impurities which have no problem kicking off the crystallization process. However, purified water by definition doesn't have those impurities. With nothing for the water molecules to latch onto, purified water can be super cooled as far as -40°C.

- A.** Watch the following Video <http://www.iflscience.com/chemistry/turn-water-ice-instantly/>

- B.** Locate two additional resources that support your solution to making snow cones more efficiently.

- C.** On a separate piece of paper write your reaction to how the ideas of super cooling would help your fund raising efforts.



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