

❄️ ■ POLAR MATH ADVENTURE: THE SUB-ZERO CHALLENGE! ■

Mastering Negative Numbers, Temperatures, Sea Depths & Number Lines!

Hero Mathlete: _____

Date: _____

Score Goal: ____ / 30

■ PROFESSOR FREEZY'S TOP SECRET NEGATIVE NUMBER RULES:

1. **Zero (0)** sits right in the middle! It is neither positive (+) nor negative (-).
2. Numbers below zero are **Negative (-1, -2, -3...)**. The further left you go, the COLDEST & SMALLEST it gets!
3. **Tricky Trap:** -10 is actually LOWER (colder) than -2! Imagine wearing 10 coats at -10°C!

SECTION 1: THE CHILLY NUMBER LINE ADVENTURE ❄️ ■

Question 1: Barnaby's Super Sneeze!

Barnaby the Bear woke up in his ice cave at -4°C . He sneezed so hard that the temperature dropped by another 5°C ! What is the new freezing temperature inside his cave?

■ **Silly Math Joke:** Why don't polar bears wear shoes? Because they have bear feet!

🗒️ ■ Write your answer & show your silly thinking below:

Question 2: Professor Freezy's Broken Number Line

Help Professor Freezy fill in the missing numbers on his frozen number line before his marker freezes into an popsicle!

a) -8, -6, ____, -2, 0, ____, 4

b) ____, -15, -10, -5, ____, 5, 10

c) 3, 2, 1, 0, ____, -2, ____

🗒️ ■ Write your answer & show your silly thinking below:

SECTION 2: THERMOMETER MADNESS & ICE CREAM MELTS ■

Question 3: Penny's Fish Ice Cream Crisis

Penny the Penguin bought a fish-flavored ice cream at -12°C . She left it in the sun, and the temperature rose by 15°C .

- 1) What is the new temperature of the ice cream?
- 2) Is her ice cream above 0°C now? (Did it melt into fish soup?)

■ **Silly Math Joke:** What does a penguin eat for lunch? Fish and chips!

🗨️ ■ Write your answer & show your silly thinking below:

Question 4: Midnight Freeze vs. Noon Sunshine

At midnight in Frosty Town, the thermometer read -7°C . By noon the next day, the sun came out and the temperature jumped up to 8°C .

What is the total difference in degrees between midnight and noon? (Hint: Count how far it is from -7 to 0 , then 0 to 8 !)

🗨️ ■ Write your answer & show your silly thinking below:

Question 5: Captain Freeze's Big Argument

Captain Freeze claims that -10°C is **WARMER** than -3°C because 10 is bigger than 3 !

Is Captain Freeze correct, or is his brain totally frozen? Explain who is right and why!

■ **Silly Math Joke:** Why was the negative number so sad? Because it was below zero!

🗨️ ■ Write your answer & show your silly thinking below:

SECTION 3: DEEP SEA DIVING & MOUNTAIN CLIMBING ■■■**Question 6: The Rubber Duck Submarine**

A submarine carrying 100 yellow rubber ducks started at sea level (0 meters). It dived down to **-45 meters** to look at a sleeping octopus. Then it floated back UP by **20 meters**.

At what depth is the rubber duck submarine floating now?

⇒ ■ Write your answer & show your silly thinking below:

Question 7: Fix Sir Freeze-a-Lot's Signs!

Sir Freeze-a-Lot got confused while putting signs between these freezing numbers! Put > (greater than) or < (less than) in the boxes to fix his homework:

a) -9 [] -2 b) -15 [] 0

c) 4 [] -10 d) -3 [] -7

■ Silly Math Joke: What do you call a snowman in July? A puddle!

⇒ ■ Write your answer & show your silly thinking below:

Question 8: The Yeti's Wardrobe Sorting

Help the Yeti pack his suitcase! Order these temperatures from **COLDEST (smallest) to WARMEST (largest)**:

Values: 5°C , -14°C , -2°C , 12°C , 0°C , -20°C

⇒ ■ Write your answer & show your silly thinking below:

SECTION 4: THE WEEKLY IGLOO WEATHER PUZZLE ■■■❄■■■**Question 9: Igloo Village Weather Report**

Here is the weekly temperature forecast for the Mathlete Igloo Village:

• Monday: -5°C • Tuesday: -1°C • Wednesday: -9°C • Thursday: 3°C • Friday: -12°C

- 1) Which day was the absolute coldest? _____
- 2) Which day was the warmest? _____
- 3) What is the difference in temperature between Friday and Thursday?

☞ ■ Write your answer & show your silly thinking below:

■ TEACHER EVALUATION & DINA'S OFFICIAL SIGNATURE BLOCK

Student Name: _____

Completion Date: _____

Final Score: _____ / 30 Points

Mastery Level: [] Super Star []
Good [] Practice Needed

Teacher / Parent Notes: _____

Approved & Verified by Dina: _____

Signature Date: _____