

A Million Whys Book 18: Science Quiz

The Polar Expedition, by Crafty Clover.

Name: _____ Date: _____ Score: _____ / 12

Fill in the missing number. Use the number bank.

Number bank: 2 10 21 23.5 28.8 90 190 1,500 1,800 2021 5,000 12,400

1. If all of Antarctica's ice melted, the sea would rise by about _____ feet.
From: How Thick Is the Ice in Antarctica?
2. National Geographic began showing the Southern Ocean as its own ocean on its maps in _____.
From: What Is the Southern Ocean?
3. In places with midnight Sun, kids may play outside at _____ a.m.
From: What Is the Midnight Sun?
4. At the North Pole, the Sun never climbs higher than about _____ degrees in the sky.
From: Why Does the Sun Circle Around the Sky at the Poles Instead of Rising and Setting?
5. Midwinter Day is June _____, the darkest day of the year in the southern hemisphere.
From: How Do Scientists at the South Pole Celebrate the Middle of Winter?
6. Seawater freezes at about _____ degrees Fahrenheit because it's salty.
From: How Can Some Fish Live in Water That Is Colder than Freezing?
7. Emperor penguins can dive more than _____ feet, deeper than the height of the Empire State Building.
From: How Deep Can Emperor Penguins Dive?
8. A bowhead's mouth can hold baleen plates over _____ feet long.
From: How Can a Bowhead Whale Live for 200 Years?
9. IceCube uses over _____ sensors spread through a cubic kilometer of ice.
From: Why Do Scientists Put Giant Telescopes at the South Pole?
10. The ship drifted about _____ miles with the ice.
From: What Is a Research Ship That Spends a Year Frozen in the Ice?
11. Mount Erebus is about _____ feet tall.
From: Is There a Volcano in Antarctica?
12. Fresh snow reflects up to about _____ percent of sunlight.
From: Why Does White Ice Help Cool the Planet?

Watch a short video answer for every question at xdme.com

Answer key

1. **190** (If all of Antarctica's ice melted, the sea would rise by about 190 feet. Book 18, Question 4)
2. **2021** (National Geographic began showing the Southern Ocean as its own ocean on its maps in 2021. Book 18, Question 8)
3. **2** (In places with midnight Sun, kids may play outside at 2 a.m. Book 18, Question 26)
4. **23.5** (At the North Pole, the Sun never climbs higher than about 23.5 degrees in the sky. Book 18, Question 30)
5. **21** (Midwinter Day is June 21, the darkest day of the year in the southern hemisphere. Book 18, Question 50)
6. **28.8** (Seawater freezes at about 28.8 degrees Fahrenheit because it's salty. Book 18, Question 61)
7. **1,800** (Emperor penguins can dive more than 1,800 feet, deeper than the height of the Empire State Building. Book 18, Question 66)
8. **10** (A bowhead's mouth can hold baleen plates over 10 feet long. Book 18, Question 84)
9. **5,000** (IceCube uses over 5,000 sensors spread through a cubic kilometer of ice. Book 18, Question 119)
10. **1,500** (The ship drifted about 1,500 miles with the ice. Book 18, Question 121)
11. **12,400** (Mount Erebus is about 12,400 feet tall. Book 18, Question 131)
12. **90** (Fresh snow reflects up to about 90 percent of sunlight. Book 18, Question 135)