

Max's Mountain Maths Challenge

Learning objective: To calculate intervals across zero and order negative numbers correctly.

Help Max the monkey navigate the icy slopes of the Frosty Peaks! Read each question carefully and write your answers clearly.

Answer Key: 1. A (-2°C), 2. False, 3. -5, 4. C (-3), 5. True, 6. -10, 7. B (-15°C), 8. 4, 9. False, 10. 15.

Word bank: integer · minus · positive · negative · celsius · interval · temperature

1. 1. The temperature at the base of the mountain is 2°C . It drops by 4 degrees. What is the new temperature? A) -2°C * B) 0°C C) 2°C D) -4°C (1 mark)

2. 2. True or False: -10 is greater than -5. (1 mark)

3. 3. If you start at 3 on a number line and move 8 spaces to the left, what number do you land on? (1 mark)

4. 4. Which number is the coldest? A) -1 B) -2 C) -3* D) 0 (1 mark)

5. 5. True or False: 0 is neither a positive nor a negative number. (1 mark)

6. 6. Max is at -4 on the number line. He jumps 6 steps further below zero. Where is he now? (1 mark)

7. 7. A freezer is at -10°C . It gets 5 degrees colder. What is the final temperature? A) -5°C B) -15°C * C) -20°C D) 5°C (1 mark)

8. 8. What is the difference between -3 and 1? (1 mark)

9. 9. True or False: -1 is closer to zero than -100. (1 mark)

10. 10. If you are at -5 and you add 20, what number do you reach? (1 mark)

Draw: Draw a vertical number line shaped like a mountain thermometer, with 0 in the middle, positive numbers at the top, and negative numbers at the bottom showing Max the monkey wearing a scarf.



Extension challenge: Max has £5 in his pocket, but he owes his friend £12 for a map. If he pays back what he can, how much debt does he still have? Write your answer as a negative number.