SAMPLES OF STANDARDS STUDENTS ARE LEARNING THIS NINE WEEKS:

6th Grade Math

STANDARDS: 6.RP.3b, 6.RP.3c, 6.RP.3d, 6.NS.5, 6.NS.6a, 6.NS.7a, 6.NS.9

6.RP.3b

Wyatt hiked 6 miles in 2 hours. At this same rate, what is the total number of miles Wyatt could hike in 9 hours?

A. 3
B. 7
C. 21
D. 27

Answer:

Solve unit rate problems including those involving unit pricing and constant speed.

Option D is correct.

6.RP.3c

At a concert, 20% of the audience members were teenagers. If the number of teenagers at the concert was 360, what was the total number of audience members?

A. 432
B. 450
C. 1,800
D. 7,200

Answer:
Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.

Option C is correct.

6.RP.3d

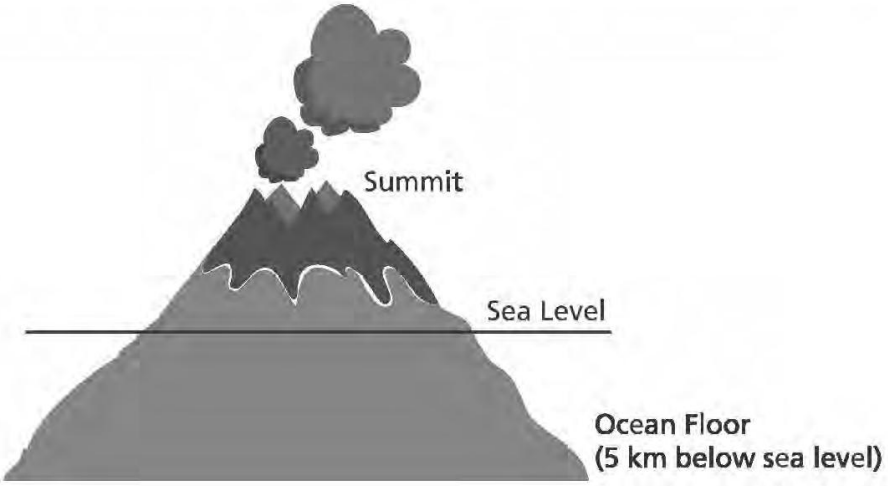
Last year, Chesa made 32 one-cup servings of soup for a school party. This year, she will make two times the amount of soup that she made last year. How many gallons of soup will Chelsea make this year?

A. 64
B. 16
C. 4
D. 2

Answer:
Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.
Option C is correct.

6.NS.5

The summit of a volcano is 10 kilometers (km) above the ocean floor, as shown below.



If the ocean floor has an elevation of -5 kilometers, which statement describes the elevation of sea level and the summit?

A The elevation of sea level is 0 km and the elevation of the summit is 5 km.

B The elevation of sea level is 5 km and the elevation of the summit is 5 km.

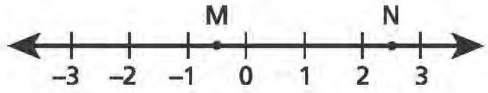
C The elevation of sea level is 0 km and the elevation of the summit is 10 km.

D The elevation of sea level is 5 km and the elevation of the summit is 10 km.

Answer: Option A is correct.

6.NS.6a.

Point M represents the opposite of $-\frac{1}{2}$ and point N represents the opposite of $\frac{5}{2}$.
Which number line correctly shows points M and N?

A


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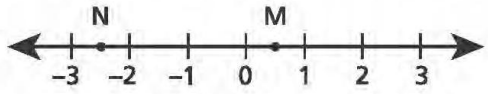
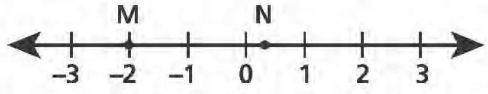
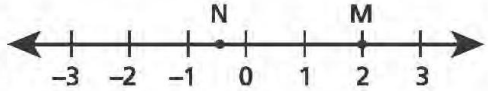


C


D


Answer:
Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., -(-3) = 3, and that 0 is its own opposite.

Option B is correct.

6.NS.7a

Keith wants to plot −8 and −9 on a number line. Which statement is true?

A. Keith should plot −8 to the left of −9 because −8 < −9.
B. Keith should plot −8 to the left of −9 because −8 > −9.
C. Keith should plot −9 to the left of −8 because −9 < −8.
D. Keith should plot −9 to the left of −8 because −9 > −8.

Answer:
Interpret statements of inequality as statements about the relative position of two numbers on a number line diagram. For example, interpret –3 > –7 as a statement that –3 is located to the right of –7 on a number line oriented from left to right.

Option C is correct.

6.NS.9

Which equations are correct? Select all that apply.

A $6 + (-8) = -2$

B $-20 + (-6) = -26$

C $-5 + 4 = -9$

D $12 + (-7) = 5$

E $-9 + 9 = 18$

Correct Answer: A, B, and D

A package delivery truck leaves Jackson and drives 90 miles north and then 145 miles south. At this point, what is the location of the truck relative to Jackson?

A 235 miles north

B 55 miles north

C 235 miles south

D 55 miles south

Correct Answer: D
