Class_

_ Date _

Day 2 Puzzle: What Is a Line's Favorite Kind of Fruit?

Look for your answer in the key at the right and put the corresponding letter in the answer blank at the bottom of the page.

- Points A, B, and C are collinear and A is between B and C. AB = 4x - 3, BC = 7x + 5, and AC = 5x - 16. Find each value.
 a. BC
 b. AB
 - **c.** *AC*
- **2.** On a number line, G = 8 and H = -3. If *H* is the midpoint of \overline{GI} , find the coordinate of *I*.
- **3.** *J* is the midpoint of \overline{KL} . Find *KJ* if KL = 38.

For 4–6, refer to the number line below.

$$M$$
 N O P Q

- 4. Suppose *O* is the midpoint of *MQ* and *N* is the midpoint of \overline{MO} . If NO = 8, find *MQ*.
- **5.** Suppose *P* is the midpoint of \overline{NQ} , OP = 11, and OQ = 35. Find *NO*.
- 6. If NO = 2y + 11, OP = 3y 2, NP = 6y + 3, and MP = 64, find each value.
 a. NO
 b. MN

An
$$\frac{1}{1c}$$
 $\frac{3}{2}$ $\frac{1}{1a}$ $\frac{1}{6a}$ $\frac{1}{4}$ because it is made of $\frac{1}{1b}$ $\frac{1}{4}$ $\frac{1}{6a}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{1a}$ $\frac{1}{6b}$ $\frac{1}{1b}$.

a	-14
b	20
c	-18
d	-13
e	32
f	3
g	23
h	39
i	16
j	41
k	-11
I	12
m	13
n	89
o	44
р	-26
q	6
r	19
S	45
t	25
u	42
v	10
w	-7
х	16
у	27
z	50