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Day 2
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.

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

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

4. Suppose $O$ is the midpoint of $\overline{M Q}$ and $N$ is the midpoint of $\overline{M O}$. If $N O=8$, find $M Q$.

| $\mathbf{a}$ | -14 |
| :---: | :---: |
| $\mathbf{b}$ | 20 |
| $\mathbf{c}$ | -18 |
| $\mathbf{d}$ | -13 |
| $\mathbf{e}$ | 32 |
| $\mathbf{f}$ | 3 |
| $\mathbf{g}$ | 23 |
| $\mathbf{h}$ | 39 |
| $\mathbf{i}$ | 16 |
| $\mathbf{j}$ | 41 |
| $\mathbf{k}$ | -11 |
| $\mathbf{l}$ | 12 |
| $\mathbf{m}$ | 13 |
| $\mathbf{n}$ | 89 |
| $\mathbf{o}$ | 44 |
| $\mathbf{p}$ | -26 |
| $\mathbf{q}$ | 6 |
| $\mathbf{r}$ | 19 |
| $\mathbf{s}$ | 45 |
| $\mathbf{t}$ | 25 |
| $\mathbf{u}$ | 42 |
| $\mathbf{v}$ | 10 |
| $\mathbf{w}$ | -7 |
| $\mathbf{x}$ | 16 |
| $\mathbf{y}$ | 27 |
| $\mathbf{z}$ | 50 |

5. Suppose $P$ is the midpoint of $\overline{N Q}, O P=11$, and $O Q=35$.

Find $N O$.
6. If $N O=2 y+11, O P=3 y-2, N P=6 y+3$, and
$M P=64$, find each value.
a. $N O$
b. $M N$

An $\overline{1 c} \overline{3} \overline{2} \overline{6 a} \overline{4}$ because it is made of

