

## Answer Key

### Practice • Solve Absolute Value Eq. and Inequalities Form A

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1)  $\{-4\}$

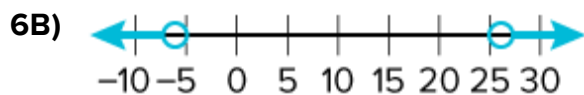
2)  $\{1, 3\frac{2}{3}\}$

3)  $\{-3, 1\}$

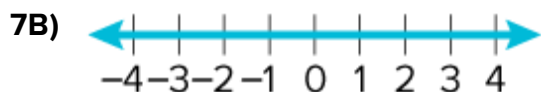
4)  $\emptyset$

5)  $|x - 51| = 3$ ; 48%; 54%

6A)  $\{x \mid x < -6 \text{ or } x > 26\}$



7A) all real numbers



8A)  $\{n \mid -\frac{1}{3} < n < \frac{5}{3}\}$



9A)  $\{x \mid -1.6 < x < 4\}$



10A)  $|v - 14.5| \leq 0.08$ ;  $\{v \mid 14.42 \leq v \leq 14.58\}$



11)  $\{-\frac{4}{5}\}$

12)  $\{y \mid y \leq -7\frac{2}{3} \text{ or } y \geq -3\}$

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**13)**  $7 + |x - 8| = -2x + 4$

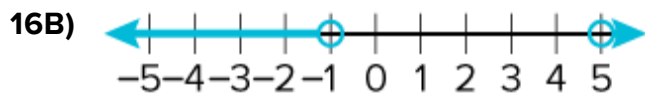
**14A)**  $x = \frac{5}{3}, x = -11$

**14B)** is  
is

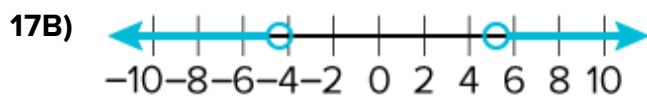
**15A)**  $|x - 35| = 0.5$

**15B)**  $x = 35.5; x = 34.5$ ; The bags of sand weigh no less than 34.5 lbs and no more than 35.5 lbs.

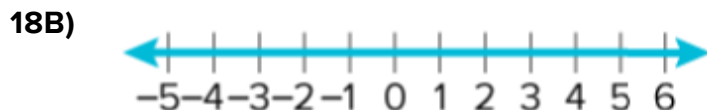
**16A)**  $\{z \mid z < -1 \text{ or } z > 5\}$



**17A)**  $\{f \mid f < -\frac{22}{5} \text{ or } f > \frac{26}{5}\}$



**18A)** all real numbers



**19)**  $|x - 35| = 3.4$ ; 38.4 psi; 31.6 psi

**20)**  $|x - 21| = 4$ ,  
or  
 $4 = |x - 21|$

**21)**  $x > 5$  and  $x < 1$   
 $x > 5$  and  $x < 1$   
greater than  
less than

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22)  $\geq$

$\geq$

$\geq$

$<$

$<$

$\geq$

$<$

$<$

1

-7

-1

3

are works

are extraneous

$\{-1, 1\}$

23) always true

3

positive number

24)  $\left| x - \frac{a+b}{2} \right| \leq b - \frac{a+b}{2}$