

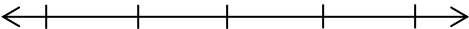
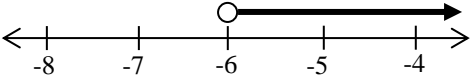
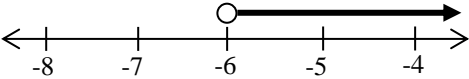
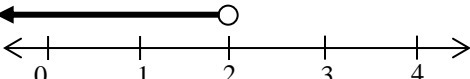
1. In a recent activity, algebra students were asked to *evaluate an expression using correct order of operations*. Below is the work for three different students. Each student has made **one** error.

Your job is to:

- *Demonstrate how to solve the problem correctly, showing each step carefully in the space provided below. (Do this first, if you like.)*
- **Circle the ONE mistake you find in each student's work. Circle only the first mistake. Be sure that whatever you circle is wrong!**
- **Explain** clearly what the student did wrong, and what the student should have done instead.

<p style="text-align: center;">Your work:</p> $12 + 36 \div 6 - 5 + 4 \cdot 3^2$	<p style="text-align: center;">Aren's work:</p> $12 + 36 \div 6 - 5 + 4 \cdot 3^2$ $= 12 + 36 \div 6 - 5 + 4 \cdot 6$ $= 12 + 6 - 5 + 24$ $= 18 - 5 + 24$ $= 13 + 24$ $= 37$ <p>Explanation of error:</p>
<p style="text-align: center;">Brie's work:</p> $12 + 36 \div 6 - 5 + 4 \cdot 3^2$ $= 12 + 36 \div 6 - 5 + 4 \cdot 9$ $= 48 \div 6 - 5 + 4 \cdot 9$ $= 8 - 5 + 36$ $= 3 + 36$ $= 39$ <p>Explanation of error:</p>	<p style="text-align: center;">Chandler's work:</p> $12 + 36 \div 6 - 5 + 4 \cdot 3^2$ $= 12 + 36 \div 6 - 5 + 4 \cdot 9$ $= 12 + 6 - 5 + 4 \cdot 9$ $= 12 + 6 - 5 + 36$ $= 18 - 5 + 36$ $= 18 - 41$ $= -23$ <p>Explanation of error:</p>

2. In a recent activity, algebra students were asked to solve and graph a complicated inequality. Below is the work for three different students. Each student has made **one** error. **Your job is to:**
- Demonstrate how to solve the problem correctly, showing each step carefully in the space provided below.
 - Circle the **ONE** mistake you find in each student's work. Circle only the first mistake. Be sure that whatever you circle is wrong!
 - Explain clearly what the student did wrong, and what the student should have done instead.

<p style="text-align: center;">Your work:</p> $4(n-3)+8 > 8n-2(n-4)$ 	<p style="text-align: center;">Ariel's work:</p> $4(n-3)+8 > 8n-2(n-4)$ $4n-12+8 > 8n-2n+8$ $4n-4 > 6n+8$ $\frac{-6n}{-6n} \quad \frac{-6n}{-6n}$ $-2n-4 > 8$ $\frac{+4}{+4} \quad \frac{+4}{+4}$ $\frac{-2n}{-2} > \frac{12}{-2}$ $n > -6$  <p>Explanation of error:</p>
<p style="text-align: center;">Barry's work:</p> $4(n-3)+8 > 8n-2(n-4)$ $4n-12+8 > 8n-2n+8$ $4n-4 > 6n+8$ $\frac{-4n}{-4n} \quad \frac{-4n}{-4n}$ $-4 > 2n+8$ $\frac{-8}{-8} \quad \frac{-8}{-8}$ $\frac{-12}{2} > \frac{2n}{2}$ $-6 > n$  <p>Explanation of error:</p>	<p style="text-align: center;">Carlos' work:</p> $4(n-3)+8 > 8n-2(n-4)$ $4n-12+8 > 8n-2n-8$ $4n-4 > 6n-8$ $\frac{-4n}{-4n} \quad \frac{-4n}{-4n}$ $-4 > 2n-8$ $\frac{+8}{+8} \quad \frac{+8}{+8}$ $\frac{4}{2} > \frac{2n}{2}$ $2 > n$  <p>Explanation of error:</p>

