## Properties of Equality

1. If $16+4=20$, does $16+4-4=20-4$ ? Why or why not?
2. If $2 d \div 4=5$, does $2 d \div 4+6=5+4$ ? Why or why not?
3. If $12-8=4$, does $(12-8) \div 2=4 \times 2$ ? Explain.
4. If $7 t=70$, does $12 \times 7 t=12 \times 70$ ? Explain.
5. Critical Thinking Emil and Jade have equal amounts of play money in two piles. Emil has $\$ 1$ and a quarter in his pile. Jade has 5 quarters in her pile. If Emil gives Jade $\$ 1$ and Jade gives Emil 4 quarters, will the two piles still be equal in value? Explain.
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6. Which equation shows the Multiplication Property of Equality if
$n+4=11$ ?
A $(n+4) \times 2=11$
B $(n+4) \times 2=11 \div 2$
C $(n+4) \times 2=11 \times 4$
D $(n+4) \times 2=11 \times 2$
7. Writing to Explain Bobbie wrote $y+6=15$. Then she wrote $(y+6) \div 3=15$. Explain why the second equation is not balanced and how to balance it.
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