## Lesson 4-2: Generate Equivalent Expressions

1. Sample answer: Expressions that can be generated using properties of operations are equivalent.
2. The Commutative Property is true for addition and multiplication.
3. Sample answer: The Associative Property can be applied to group or ungroup adjacent terms in an expression.
4. Sample answer: $\frac{1}{3} y-7$
5. 

| 1 | -12 | 1 | -12 |
| :---: | :---: | :---: | :---: |
| 2 | -9 | 2 | -9 |
| 3 | -6 | 3 | -6 |

Distributive Property
6. Sample answer: $-\frac{5}{2}+6 x$
7. Sample answer: - $21-15 \mathrm{~g}$
8. Sample answer: $x+(7+3 y)$
9. Sample answer: $-\frac{1}{5} x+\frac{2}{9}$
10. B
11. Sample answer: $-4+4 d$
12. $w+(9+3)$ or $w+12$
13. Sample answer: $y+z+29$
14. Sample answer: She did not group like terms correctly. She combined all of the numbers in the expression even though they are not all coefficients of $n$.
15. Sample answer: $x+4+(-3 y)$
16. Sample answer: $\frac{4}{3} x-2$;
$4 x \div 3+(-2)$
17. a. Sample answers:
$189+224+p+q$ $224+189+q+p$
b. Sample answers:
$\$ 40$ and $\$ 47$
\$50 and \$37
18. B, D

