Name _____ Date _____ Class _____

SKILL 78

# Skills Readiness

## *Function Tables*

A function table is a set of solutions to an equation. When given a set of $x$-values, substitute the values into the equation to find the corresponding $y$-values. Use the $x$- and $y$-values to generate ordered pairs.

Example: Generate ordered pairs for the function $y = 5x + 2$ for $x = -2, -1, 0, 1, 2$.

| $x$ | $y = 5x + 2$ | $y$ |
|---|---|---|
| $-2$ | $y = 5(-2) + 2 = -10 + 2 = -8$ | $-8$ |
| $-1$ | $y = 5(-1) + 2 = -5 + 2 = -3$ | $-3$ |
| 0 | $y = 5(0) + 2 = 0 + 2 = 2$ | 2 |
| 1 | $y = 5(1) + 2 = 5 + 2 = 7$ | 7 |
| 2 | $y = 5(2) + 2 = 10 + 2 = 12$ | 12 |

| $x$ | $y$ |
|---|---|
| $-2$ | $-8$ |
| $-1$ | $-3$ |
| 0 | 2 |
| 1 | 7 |
| 2 | 12 |

### Practice on Your Own

**Generate ordered pairs for each function for $x = -2, -1, 0, 1, 2$.**

**1.** $y = 3x + 1$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**2.** $y = -4x + 5$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**3.** $y = x^2$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**4.** $y = x^2 - 3$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**5.** $y = \frac{1}{2}x + \frac{3}{2}$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**6.** $y = -\frac{1}{2}x + 4$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**7.** $y = (x + 2)^2$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**8.** $y = (x - 2)^2$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

### Check

**Generate ordered pairs for each function for $x = -2, -1, 0, 1, 2$.**

**9.** $y = 4x + 3$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**10.** $y = -3x - 10$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**11.** $y = \frac{1}{2}x - \frac{1}{2}$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

**12.** $y = (x - 3)^2$

| $x$ | $y$ |
|---|---|
| $-2$ | |
| $-1$ | |
| 0 | |
| 1 | |
| 2 | |

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