

Warm Up:

$$t(x) = x^2 + x - 4$$

$$r(x) = x + 1$$

$$s(x) = -2x + 4$$

Evaluate:

$$t(-1) + s(4) = -8$$

$$r(t(3)) = 9$$

$$3(s(5)) = -18$$

$$t(-1) = (-1)^2 + (-1) - 4$$

$$1 - 1 - 4$$

$$t(3) = 3^2 + 3 - 4$$

$$s(5) = -2(5) + 4$$

$$t(3) = 8$$

$$s(5) = -6$$

$$t(-1) = -4$$

$$r(8) = 8 + 1$$

$$3(-6) = -18$$

$$s(4) = -2(4) + 4$$

$$s(4) = -4$$

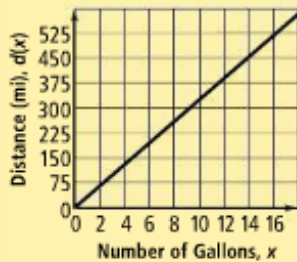
16. about 5,580,000 mi

17. \$11

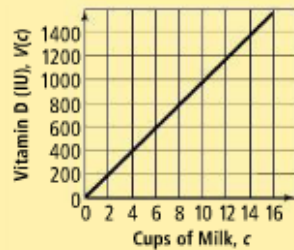
18.  $\{-11, -9, -7, -5, -3\}$

19.  $\{-39, -7, 1, 5, 21\}$

22.  $0 \leq x \leq 17, 0 \leq d(x) \leq 544$



23.  $0 \leq c \leq 16, 0 \leq D(c) \leq 1568$



37. 23

38. 18

39. 6

40. 20

$$f(x) = 2x - 7$$

$$2(-2) - 7 = -11$$

$$2(-1) - 7 = -9$$

$\{-2, -1, 0, 1, 2\}$

$$f(g(3))$$
$$g(3) = 3^2 + 1$$
$$g(3) = 10$$
$$f(10) = 2(10)$$
$$20$$

**Evaluating a Function from an Equation**

$$f(x)=2x^2-1 \quad g(x)=4x+2 \quad h(x)=5$$

$$f(y)=2y^2-1$$

$$g(3w)=4(3w)+2=12w+2$$

$$h(z)=5$$

$$g(t+2)=4(t+2)+2$$

$$4t+8+2$$

$$4t+10$$

## **Task Cards**

20 problems, but I took out #18 and #20

You do NOT need to do them in order, but they go easiest to hardest

You can use your phone QR code reader to check your answers OR use my answer key