

1. independent
 2. dependent
 4. function

x	y
5	5
6	5
7	5
8	5

$y=5$
 $f(x)=5$

6. $y=4x-2$ Domain: 1,2,3,4

x	1	2	3	4
y	2	6	10	14

$4(1)-2=4-2=2$
 $4(2)-2=8-2=6$
 $4(3)-2=12-2=10$
 $4(4)-2=16-2=14$

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8. $y=\frac{1}{2}x+2$

x	6	7	8	9
y	5	5.5	6	6.5

$y=\frac{1}{2} \cdot 6 + 2 = 3+2=5$
 $y=\frac{1}{2} \cdot 7 + 2 = 3.5+2=5.5$
 $y=\frac{1}{2} \cdot 8 + 2 = 4+2=6$
 $y=\frac{1}{2} \cdot 9 + 2 = 4.5+2=6.5$


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10. $y=x-7$

12.  8 balloons/bunch
 independent (x) = # of balloon bunches
 dependent (y) = # of balloons

$y=8x$
 $y=8(10)=80$

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13.  10 loaves
 3 loaves/hour

independent (x) = # of hours left in a shift
 dependent (y) = # of loaves

$y=10+3x$
 $y=10+3(4)=10+12=22$
 22 loaves

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5. $y=\frac{1}{3}x-4$

x	12	15	18	21
y	0	1	2	3

6. $y=\frac{1}{4}x+\frac{3}{4}$

x	1	3	5	7
y	1	1.75	2	2.25

$\frac{1}{4} \cdot \frac{3}{1} + \frac{3}{4} = \frac{3}{4} + \frac{3}{4} = \frac{6}{4} = \frac{3}{2} = 1.5$

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7. $y=\frac{0.1x+2}{3}$

x	10	20	30	40
y	1	1.33	1.67	2

$y=\frac{0.1(20)+2}{3} = \frac{2+2}{3} = \frac{4}{3} = 1.33$

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$$8. y = 2x + 3 \quad 10. y = x + 31.5$$

size

$$= 11 + 31.5$$

$$= 42.5$$

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