

# WARM UP

Evaluate for  $x = 9$

1)  $7x$

2)  $x/3$

3)  $4 + 3x$

4)  $5x - 9$

5)  $10x/5$

# MATH COURSE I

Two Step  
Patterns

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# Two Step Patterns

Write the Expression.

x	y
1	7
2	13
3	19
4	25

\*Look for a pattern down the “y” column.

\*Use that number to multiply by x.

\*See what needs to be added last

-The Pattern is **add 6**, so **multiply 1 and 6**. How much more do you need to make 7?

ANSWER:  **$6x + 1$**

# TRY SOME!

x	y
2	6
3	10
4	14
5	18

x	y
3	13
4	18
5	23
6	28

x	y
4	16
5	19
6	22
7	25

x	y
6	7
7	9
8	11
9	13

\* Hint: This one requires subtraction

# FIND THE MISSING NUMBER

x	y
2	7
3	11
4	15
	31

- 1) Find the pattern  $4x - 1$
- 2) Write the equation  $4x - 1 = y$
- 3) Fill in the value of y and solve for x.

$$4x - 1 = 31$$

$$+1 \quad +1$$

$$4x = 32$$

$$\div 4 \quad \div 4$$

$$x = 8$$

# FIND THE MISSING NUMBER

x	y
10	5
11	8
12	11
24	

$$3x - 25 = y$$

# CREATE A TABLE

$$y = 4x + 1$$

\*Choose an x to solve for y. **i.e. 1**

$$y = 4(1) + 1$$

$$y = 4 + 1$$

$$y = 5$$

x	y
1	5
2	

# CREATE A TABLE

1)  $y = 10x - 3$

2)  $y = 5x + 1$

3)  $4x - 2 = y$

4)  $y = 12x + 5$

5)  $3x - 2 = y$