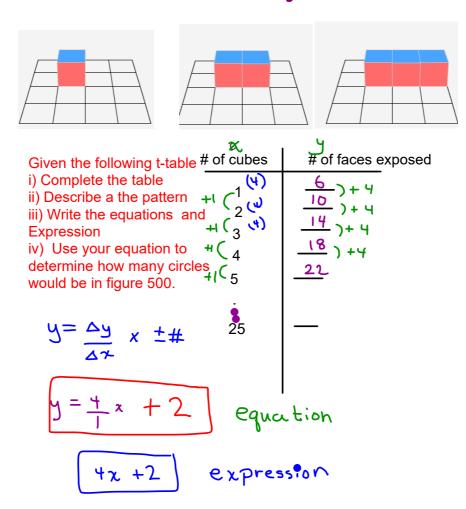
Warm Up

Grade 9

Remember Connecting Cubes



$$x = 25$$
 $y = ?$

$$y = \frac{4}{1}x + 2$$

$$y = 4(25) + 2$$

$$y = 100 + 2$$

$$y = 102$$

Warm Up

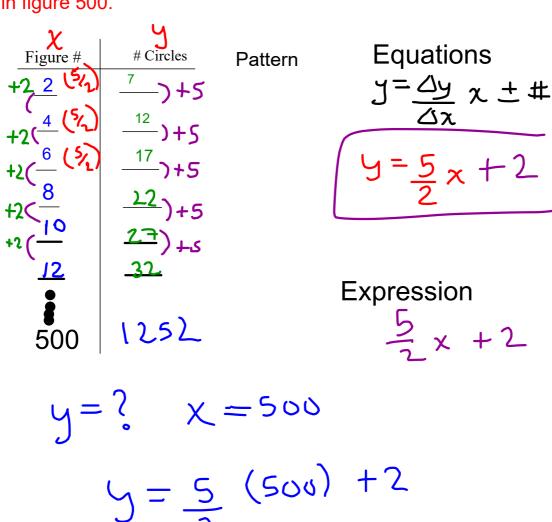




Grade 9

Given the following t-table

- i) Complete the table
- ii) Describe a the pattern
- iii) Write the equations and Expression
- iv) Use your equation to determine how many circles would be in figure 500.



$$y = 1250 + 2$$

$$y = 1250 + 2$$

A large water tower holds 15000 liters of water, however during the winter the water tower was damaged and started to leak. This table shows the amount of water every hour after it sprung the leak. The level of water changes at a constant



Time (t hours)	Amount (A Liters)	
(-عمر) _(-عمر)	15 000	$y = \frac{\Delta y}{\Delta x} \propto \pm \#$
+1 (-100)	14 800	H = -500 F + 12000
3 +1 (4	14 400 14 200	A = -200 + +15 °00
		H = - 100 € 713

iii) How much water in the water tower after 10 hours?

iv) When will the water tower be empty?

$$A = -200 \pm +15000$$

$$O = \frac{-200 \pm}{-200} + 15000$$

$$\frac{-15000}{-200} = \frac{-200 \pm}{-200}$$

$$\pm = 75$$

Try these

For n = 2, solve for each of the following

1)
$$P = 5n + 6$$

$$K=4(2)-1$$

For n = -5, solve for each of the following

1)
$$P = 5n + 6$$

$$P = 5(-5) + 6$$

$$W = 10(-5) - 5$$

$$w = -50 - 5$$

$$p = -19$$



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Questions

4ac,5ac,6,7,8,9,11,

Must Show ALL WORK