Warm-Up
A landscape designer uses wooden boards as edging for the plots in a herb garden.









plots [p] #boards [b]

A) Write an equation to show how to calculate the number of boards?

Describe the relationship

evenue As pincrease by 1, b increases by 3.

c) If you have 24 plots how many

boards are used?

March 15, 2018

7. The pattern in this table continues. Which expression below represents the number of squares in terms of the figure number?

| Figure, f | Number of Squares, s |
|----------------------|------------------------|
| 1 | 6 >+1 |
| 2 | 7 5+1 |
| 3 | 8 |
| 4 | 9 |
| 5 | 10 |
| a) 5 <i>f</i> | b) $2f$ |

lesson 1c.notebook March 15, 2018

9. The pattern in this table continues. Which equation below relates the number of squares to the figure number?

| Figure, f | Number of Squares, s |
|-----------|----------------------|
| 1 | 5 >+2 |
| 2 | 7 5+2 |
| 3 | 9 12 |
| 4 | 11 72 |
| 5 | 13 |

a)
$$s = 4f + 1$$

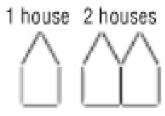
c)
$$s = f + 2$$

(b)
$$s = 2f + 3$$

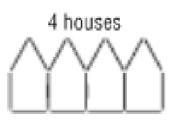
d)
$$f = 2s + 3$$

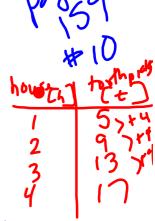
Here is a pattern made with toothpicks.

The pattern continues.









A. Make a table of values.

B. Write an equation that relates the number of houses to

the number of toothpicks! t=4h+1

What is the number of toothpicks needed for

156 houses?

D. If you used 45 toothpicks how many

houses do you have?

lesson 1c.notebook March 15, 2018

Bob's taxi had a sign that read

Fixed cost \$3.60

+
\$1.50 per kilometre

A. Write an equation that relates the cost to the distance travelled.

C = 3.60 + 1.50d

B. What is the cost for an 11-km ride.

$$C = 3.60 + 1.54$$

 $C = 3.60 + 1.5(11)$
 $C = 3.60 + 16.50$
 $C = 20.10$

lesson 1c.notebook March 15, 2018

A Math tutor charges \$15.75 for each hour and a fixed cost of \$8.00.



Let "h" represent hours

i) Write an equation that relates the cost to the hours hired

ii) How much will a tutor cost for 4 hours?

lesson 1c.notebook March 15, 2018

142 Worksheet

Page 160-161 #14, 16