

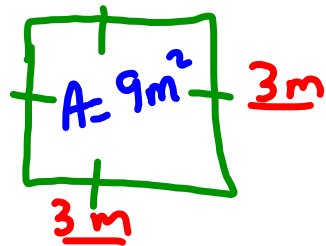


Warm Up  
grade 8



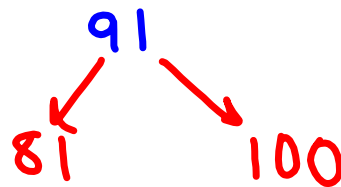
Nov. 6

1) If the area of a square is  $9 \text{ m}^2$ , what is the side length?



Side =  $3 \text{ m}$

2) 91 is not a perfect square number but which two consecutive square numbers is it between?



$$x^1 = x$$

$$x^0 = 1$$

A handwritten diagram illustrating the powers of 3. On the left, the numbers 3, 3x3, 3x3x3, and 3x3x3x3 are written in red. On the right, the equations 3^1 = 3, 3^2 = 9, 3^3 = 27, and 3^4 = 81 are written in red. A purple arrow points from 3 to 3^1, and subsequent purple arrows point from 3^1 to 3^2, 3^2 to 3^3, and 3^3 to 3^4. To the right of each equation, a green arrow points downwards with the text "÷3". At the bottom, the equation 3^0 = 1 is written in blue.

$$\begin{array}{l} 3 \times 3 \times 3 \times 3 \\ 3 \times 3 \times 3 \\ 3 \times 3 \\ 3 \\ 3^0 = 1 \end{array} \quad \begin{array}{l} 3^4 = 81 \\ 3^3 = 27 \\ 3^2 = 9 \\ 3^1 = 3 \end{array} \quad \begin{array}{l} \downarrow \div 3 \\ \downarrow \div 3 \\ \downarrow \div 3 \\ \downarrow \div 3 \end{array}$$

# Class/Homework

## Page 8

# 4, #5, #6 (~~don't use tiles sketch rectangles~~),

#9 (Use graph paper), (if you don't have graph paper write out factors)

#10 (a, b, c, d JUST sketch),

#11,

#12

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#15

#16,

#17

#18 (Use cal)

#19,

#20

10b)

