

## Exponent Practice 2 (KEY)

Write the following equations algebraically. Check answers using the graphing calculator. Round answers to the nearest hundredth, if necessary.

1.  $x^2 + 4 = 20$   
 $x = 4$

2.  $x^2 + 24 = 200$   
 $x = 14$

3.  $x^2 + 2 = 20$   
 $x = 4.24$

4.  $\frac{x}{20} = x^2$   
 $x = 0.05$

5.  $x^2 + 2 = 200$   
 $x = 13.96$

6.  $x^2 + 2 = 20$   
 $x = 4.24$

7. Suppose that surface area of the shell of an egg is directly proportional to the \_\_\_\_\_ powers of the

mass of the egg. An average chicken egg has a mass of 60 grams, and it has a surface area of 120 cm<sup>2</sup>.

- (a) Which are the independent and dependent variables? What is the domain of the problem situation? Which is the range?  
 independent = mass of egg (g)      dependent = surface area of egg (cm<sup>2</sup>)  
 60 g to 100 g      0 to 200 cm<sup>2</sup>

- (b) Estimate a formula to represent the relationship between the surface area of the shell of an egg and the mass of the egg.  
 multiplying quadratically      dividing

- (c) Which would be the surface area of an average egg that had a mass of 1,000 grams? Round the answer to the nearest whole number.  
 The surface area of the average egg would be approximately 200 cm<sup>2</sup>

- (d) Which would be the mass of a larger egg that had a surface area of 120 cm<sup>2</sup> based on the answer to the previous part of a given.

# Hs Mathematics Algebra 1 Unit 08 Lesson 01

**Peipei Pang**



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