

Exponent Practice 2 (KEY)

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

1. $2^{x^2} = 1000$
 $x = 0.542$

2. $x^{1/2} = 20 = 2000$
 $x = 400$

3. $x^{1/2} = 1000$
 $x = 100000$

4. $\frac{x}{100} = 2^{x^2}$
 $x = 0.0001$

5. $x^{1/2} = 20 = 2000$
 $x = 40000$

6. $x^{1/2} = 20 = 2000$
 $x = 40000$

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 cm².

(a) Which are the independent and dependent variables? What is the domain of the problem situation? What is the range?

Independent: mass of egg (g) Dependent: surface area of egg (cm²)
 60 g ≤ x ≤ 100 g 0 ≤ y ≤ 100

(b) Determine a formula to represent the relationship between the surface area of the shell of an egg and the mass of the egg.
 $y = 2x$ $y = 2x$

(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 cm².

(d) Which would be the mass of a larger egg that had a surface area of 120 cm²? Round the answer to the nearest tenth of a gram.
 The mass of the egg would be 60 g.

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Ian Pickup



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