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Direct and Inverse Variation Worksheet Name: _____

Find the Missing Variable:

- y varies directly with x. If $y = 4$ when $x = 2$, find y when $x = 6$.
- y varies inversely with x. If $y = 40$ when $x = 16$, find x when $y = 5$.
- y varies inversely with x. If $y = 7$ when $x = 4$, find y when $x = 5$.
- y varies directly with x. If $y = 15$ when $x = 18$, find y when $x = 1.6$.
- y varies directly with x. If $y = 75$ when $x = 25$, find x when $y = 25$.

Classify the following as: a) Direct b) Inverse c) Neither

- $6t = 3p$
- $9t = \frac{p}{4}$
- $12t = 3p$
- $7y = \frac{2}{x}$
- $10a = 5t$
- $13 = \frac{1}{18}$
- $8t = 8$
- $11t = \frac{2}{x}$

What is the constant of variation for the following?

- $14t = 8$
- $15t = \frac{2}{3}$
- $10x = 5t$
- $17t = \frac{2}{1}$

Answer the following questions.

- If x and y vary directly, as x decreases, what happens to the value of y?
- If x and y vary inversely, as y increases, what happens to the value of x?
- If x and y vary directly, as y increases, what happens to the value of x?
- If x and y vary inversely, as x decreases, what happens to the value of y?



Chemistry
Mr. Lutz / Mr. Stanger
Practice Problems
Significant Figures and
Scientific Notation
(112 points total)

Name: Kissy
Date: _____ Block: _____

1. Determine the number of significant figures in the following measurements (1 point each):

- 640 cm³ 2
- 200.0 ml 4
- 0.5200 g 4
- 1.005 kg 4
- 10000 L 1
- 20.900 cm 5
- 0.00000056 g/L 2
- 0.04002 kg/m³ 4
- 790001 cm³ 6
- 665.000 kg 6

2. Perform the following calculations, and express the result in the correct units and number of significant figures (3 points each – 1 point for number, 1 point for significant figures and 1 point for units):

- $47.0 \text{ m} \div 2.2 \text{ s}$ 21 m/s 21.3636
- $140 \text{ cm} \times 35 \text{ cm}$ 4900 cm^2 4900
- $5.88 \text{ kg} \div 200 \text{ m}^3$ 0.0294 kg/m^3 0.0294
- $0.0050 \text{ m}^2 \times 0.042 \text{ m}$ $2.1 \times 10^{-4} \text{ m}^3$ *
- $300.3 \text{ L} \div 180 \text{ s}$ 1.7 L/s 1.6683

PAULIK - KEY
GENETICS PRACTICE PROBLEMS PACKET
Monohybrid and Dihybrid Crosses (Chapter 14)

1. In one of Mendel's crosses a plant homozygous for the smooth pod coat was crossed with a plant having a homozygous wrinkled coat. It is known that smooth pod coat is dominant to wrinkled coats. Following this cross two of the F1 generation were crossed resulting in an F2 generation.

S = smooth, dominant allele
s = wrinkled, recessive allele

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a. If the male parent is homozygous for wrinkled seeds, what kind of gene will be present in each sperm cell? s

b. The female parent is homozygous for smooth seeds, what kind of gene will each egg contain? S

c. What is the genotype of the plants in the F1 generation? Ss

d. What is the phenotypic ratio of the F1 plants? smooth (heterozygous)

e. What is the genotypic ratio of the F2 generation? 1 SS : 2 Ss : 1 ss OR 25% SS : 50% Ss : 25% ss

f. What is the phenotypic ratio of the F2 generation? smooth : wrinkled OR 75% smooth : 25% wrinkled

g. What are the phenotypic and genotypic ratios of a cross between the homozygous smooth parent and one of the F1 plants? phenotypic ratio = 1 smooth : 0 wrinkled
genotypic ratio = 1 SS : 1 Ss : 0 ss

h. What are the phenotypic and genotypic ratios of a cross between the homozygous wrinkled parent and one of the F1 plants? phenotypic ratio = 0 smooth : 1 wrinkled
genotypic ratio = 0 SS : 1 Ss : 1 ss

2. Mendel crossed parent plants to analyze the position of the flowers. Axial flowers grow along the stem while terminal flowers grow at the tips of the stem. A homozygous dominant axial plant is crossed with a homozygous recessive terminal plant.

A = axial, dominant allele
a = terminal, recessive allele

a. Diagram the cross resulting in the F1 generation.

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b. What is the possibility of obtaining a homozygous plant in this generation? 0% AA or aa

c. What is the possibility of obtaining a heterozygous plant in this generation? 100% Aa

d. What is the possibility of obtaining a terminal plant in the F2 generation? 25% aa

e. What is the possibility of obtaining an axial plant in the F2 generation? 75% axial (AA or Aa)

3. In snapdragons, red flower color is incompletely dominant to white flower color, the heterozygous condition being pink. A red flowered plant is crossed with a white one.

a. Diagram the cross resulting in the F1 generation.

$C^R = \text{red}$
 $C^W = \text{white}$

b. What is the probability of obtaining a white or red plant in the F1 generation? 0% $C^R C^R$ or $C^W C^W$

c. What is the probability of obtaining a pink plant? 100% $C^R C^W$

d. What is the probability of obtaining a white or red plant in the F2 generation? 25% white + 25% red = 50%

e. What would be the genotypic and phenotypic ratios of the F2 generation?
genotypic ratio: 1 $C^R C^R$: 2 $C^R C^W$: 1 $C^W C^W$
phenotypic ratio: 1 red : 2 pink : 1 white

1/2

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