	Name:		Date:	
C	uestion 1			
Sc	olve the percentage problen	ns		
.	Willow learns her favorite drink normally costs \$2.5		perry Double Iced Rush, is 509 st today?	% off today. If the
l.			ad a 15% decrease in profit co what is the profit this year?	mpared to last year.
.		ss, a score of 168 points is	00% of her grade. In this class, s required. If Lacy correctly co	

IV.	What percentage of months do September, October, and November make up?
V.	A scientist studying variations in plants must determine the percentage of yellow-spotted plants grown in a laboratory. If 5 red-spotted plants, 80 spotless plants, 10 blue-spotted plants, and 5 yellow-spotted plants are grown, what percentage of plants have yellow spots?
VI.	Presley, a civil engineer, measures a panel to be thirty and one-half inches. If she wants to cut the panel to 60% of its original size, how many inches is the new panel?

Name: _____ Date: _____

Question 1

Solve the percentage problems

Willow learns her favorite drink, an Orange Raspberry Double Iced Rush, is 50% off today. If the drink normally costs \$2.55, how much does it cost today?

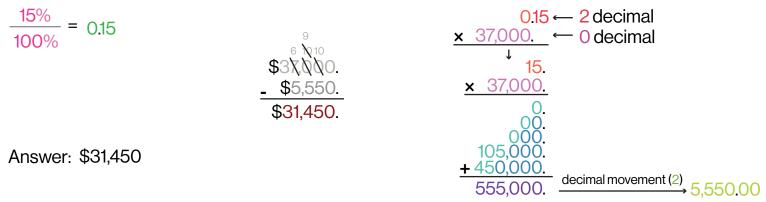
$$\frac{50\%}{100\%} = 0.50$$

$$\frac{0.5}{\times 2.55} \leftarrow 1 \text{ decimal}$$

$$\frac{0.5}{\times 2.55} \leftarrow 2 \text{ decimal}$$

$$\frac{2.55}{\times 2.55} \leftarrow 2 \text{ decimal movement (3)}$$
Answer: \$1.28

II. A business owner determines his business has had a 15% decrease in profit compared to last year. If the profit from the previous year was \$37,000, what is the profit this year?



III. Lacy takes a class where homework makes up 100% of her grade. In this class, 270 points can be earned. To pass this class, a score of 168 points is required. If Lacy correctly completes 68% of her homework, can she pass the class?

$$\frac{68\%}{100\%} = 0.68$$

$$\frac{0.68}{\times 270.} \leftarrow 0 \text{ decimal}$$

$$\frac{68.}{\times 270.}$$

$$\frac{68.}{\times 270.}$$
0.
4,760.
+ 13,600.
+ 13,600.
183.60

decimal movement (2)
183.60

Answer: Yes, Lacy will pass the class if she correctly completes 68% of her homework.

IV. What percentage of months do September, October, and November make up?



Answer: 25%

V. A scientist studying variations in plants must determine the percentage of yellow-spotted plants grown in a laboratory. If 5 red-spotted plants, 80 spotless plants, 10 blue-spotted plants, and 5 yellow-spotted plants are grown, what percentage of plants have yellow spots?

$$\begin{array}{c|c}
0.05 \\
\hline
5.00 \\
-500 \\
\hline
0
\end{array}$$
0.05 \cdot 100\% = 5\%

Answer: 5%

VI. Presley, a civil engineer, measures a panel to be thirty and one-half inches. If she wants to cut the panel to 60% of its original size, how many inches is the new panel?

Answer: 18.3 inches