Problem 1

How do you represent 10% as a ~~fraction?~~ ✗

$\left\{\begin{array}{l} \text{(A) } \frac{10}{1} \rightarrow \square\% \\[4pt] \text{(B) } \frac{1}{2} \rightarrow \square\% \\[4pt] \text{(C) } \frac{1}{100} \rightarrow \square\% \\[4pt] \text{(D) } \frac{1}{10} \rightarrow \square\% \end{array}\right.$

Percent → fraction
$10\% \rightarrow \frac{10}{100}$

Fraction → Percent
$\div$ %

$\frac{x}{100} \rightarrow x\%$

Problem 2

How do you represent 10% as a decimal?

(A) 0.10

(B) 1.0

(C) 0.001

(D) 10.0

Problem 3

There is a shirt you want that costs $12.00. Volusia County sales tax is 6.5%. How much will the tax be?

(A) $0.12

(B) $1.20

(C) $0.78

(D) $7.80

(B) $\frac{1}{2}$ as a percent? 50% $\qquad$ $\frac{5}{10} = \frac{1}{2} = \boxed{\frac{50}{100}} \rightarrow 50\%$

$\overset{\times 50}{\frown}$

$\frac{1}{2} = \frac{50}{100} \rightarrow 50\%$

$\underset{\times 50}{\smile}$

$\frac{1}{2} \leftrightarrow 50\%$

$\downarrow$

$\frac{50}{100}$

(C) $\frac{1}{100} \longrightarrow 1\%$? "1 percent" "1 per 100"

$\frac{1}{100} \rightarrow$ "1 per 100"

(D) $\frac{1}{10} \leftrightarrow 10\%$ $\overset{\cdot 10}{\frown}$ $\frac{10}{1} = 10$

$\downarrow$ $\frac{1}{10} = \frac{10}{100}$ $\frac{X}{1} = X$

$\frac{10}{100}$ $\underset{\cdot 10}{\smile}$

(A) $\overset{\times}{10\%}$, $\overset{\times}{100\%}$, $\overset{\checkmark}{1000\%}$,

$\frac{10}{1} \longrightarrow 10\%$, 100% , 1000% , $\frac{10}{1} \overset{X}{\longrightarrow} 10\%$

$\overset{\times 100}{\frown}$ $\uparrow$

$\frac{10}{1} = \frac{1000}{100} \longrightarrow 1000\%$ $X \overset{?}{\searrow} \frac{10}{100}$

$\underset{\times 100}{\smile}$

$\frac{2}{2} = 1$

(E) $\frac{3}{6} \rightarrow 50\%$ · reducing fractions $\frac{X}{X} = 1$

$\searrow \downarrow \nwarrow$ · factors

$\frac{3 \div 3}{6 \div 3} = \frac{1}{2} = \frac{50}{100}$ · greatest common factor $2 \cdot 1.5 = 3$

factors $\begin{cases} 6: 2,3,6,1 \\ 3: 1,3 \end{cases}$

(F) $\frac{1}{5} \cdot \frac{2}{2} = \frac{2}{10} \cdot \frac{10}{10} = \frac{20}{100} \rightarrow 20\%$ $\frac{1}{5} \cdot \frac{2}{2} = \frac{2}{10}$ $\frac{1}{5} \cdot 2 = \frac{2}{10}$ ✗

$\frac{1}{5} \rightarrow 20\%$ $\frac{1}{5} \cdot \frac{2}{1} = \frac{2}{5}$

Problem 4

Including tax, what is the total amount you'll pay for the shirt in problem #3?

 (A) $12.12

 (B) $12.00

 (C) $13.78

 (D) $12.78

Problem 5

Yesterday, Rashed went to the grocery store to buy a few things. Some items were taxed at 6.5%, and some items were not taxed.

Water	$2.99	not taxed
Apples	$0.75	not taxed
Paper Towels	$4.99	taxed
Soup	$2.00	not taxed
Socks	$5.50	taxed
Birthday Card	$1.99	taxed

How much tax did Rashed end up paying?

 (A) $1.18

 (B) $8.11

 (C) $0.81

 (D) $0.65

What was the total amount that Rashed spent at the store?

 (A) $19.03

 (B) $18.22

 (C) $17.41

 (D) $19.40