$\qquad$
Date: $\qquad$

1. Which of the following statements about the system of equations below is true?

Eq. 1) $\frac{3 y}{3}=\frac{6 x}{3}+\frac{\mathbf{2 4}}{3}$

B) The system has two unique solutions

Eq. 2) $2 y-4 x-16=0$
$+4 x+161+4 x+16$

Same equation, same lire, right on top of each other.
D) The system has an infinite number of solutions Those lines have infinite
solutions (points where they touch)
Answer:

2. Eq. 1) $\frac{3 y}{3}=\frac{45 x}{3}+\frac{180}{3}$.

Eq. 2) $\frac{2 y}{2}=\frac{\mathbf{2 6 x}}{2}+\frac{\mathbf{1 6 0}}{2}$

$$
y=15 x+60
$$

What is the solutions the above system of equations?

$$
\begin{aligned}
& y=15(10)+60 \\
& y=150+60 \\
& y=210
\end{aligned}
$$



$$
y=13 x+80
$$


3. The price list has been lost from the school cafeteria. Yesterday, 2 milk boxes and $\mathbf{3}$ muffins cost a student $\$ \mathbf{3 . 2 5}$ Today, $\mathbf{5}$ milk boxes and $\mathbf{2}$ muffins cost that same student $\$ 4.00$
What is the cost of a milk box? " $X$ " is the cost of a milk What is the cost of a muffin? " $y$ " is the cost of a muffin How much will it cost tomorrow if that student buys 4 milks and 4 muffins?

4. Dan got a job at Footlocker selling shoes and shirts.

He kept a record of his sales in a table but spilled coffee on it and lost some of the data.

|  | Shirts | Shoes | Total sales (\$) |
| :---: | :---: | :---: | :---: |
| Day 1 | $3 \times$ | + | $12 y$ |
| Day 2 | $18 \times$ | + | $6 y$ |
| Day 3 | $? \times x$ | + | $10 y$ |

How many shirts did he sell on day 3?


