Go into groups please. We will present bellwork #19 today. Also go over homework in your group.

32 students   40% play
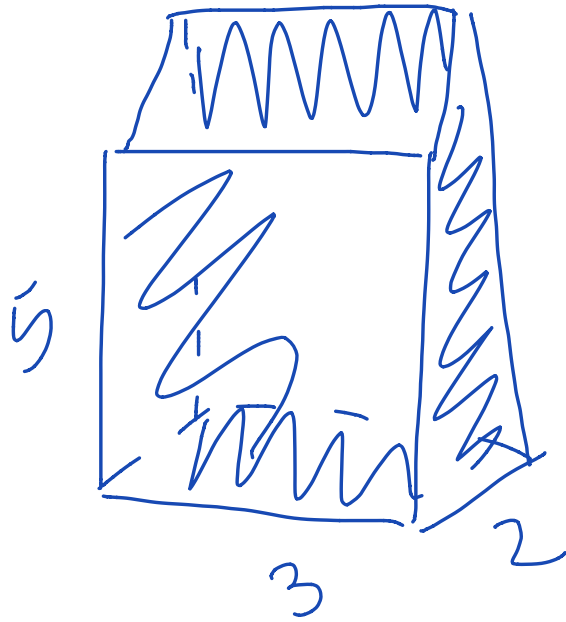
32(.6)   0.4

$$\frac{32 \cdot 60}{100}$$ NOT

$$\frac{32(100-40)}{100}$$ $$\frac{n(100-p)}{100}$$

$5 \cdot 3 = 15 \times ?$

$3 \cdot 2 = 6 \times 2$

$5 \cdot 2 = 10 \times 2$

$30 + 12 + 20$

62 (B)

(10)

$$3g - 2h = -1$$

$$\frac{8h}{8} = \frac{5}{8} + \frac{12g}{8}$$

$$h = \frac{5}{8} + \frac{4}{3}g$$

$$3g - 2h = -1 \qquad ?\left\{ \begin{array}{l} 3g - 2h = -1 \\ -12g + 8h = 5 \end{array} \right.$$
$$8h = 5 + 12g$$

$$-12g \qquad -12g \quad) \quad \dfrac{12g - 8h = -4}{0 \ne 1}$$

No solution

Parallel lines

$$4\left(\dfrac{1}{4}x + y = \dfrac{7}{2}\right)$$

$$2\left(x - \dfrac{1}{2}y = 2\right)$$

$$\left.\begin{array}{l} x + 4y = 14 \\ 2x - y = 4 \end{array}\right\} \rightarrow \boxed{x = -4y + 14}$$

$$2(-4y+14) - y = 4$$

$$-8y + 28 - y = 4$$

$$-9y + 28 = 4$$

$$-9y = -24$$

$$y = \frac{24}{9} = \frac{8}{3}$$

$$x = -4y + 14$$

$$x = -4\left(\frac{8}{3}\right) + 14$$

$$x = -\frac{32}{3} + \frac{42}{3} = \frac{10}{3}$$

$$\left(\frac{10}{3}, \frac{8}{3}\right)$$

$$\left(3\frac{1}{3}, 2\frac{2}{3}\right)$$

$$(3.\overline{3}, 2.\overline{6})$$

① Elimination

$$5x + 2y = -8$$
$$4x + 3y = 2$$

② Substitution

$$x - y = 1$$
$$2x + 3y = 12$$

⑧ $a - b = 2 \rightarrow a - b = 2$

$-2a + 3b = 3$
$\qquad \qquad \underline{+b \quad +b}$
$\qquad \qquad a = b + 2$

$-2(b+2) + 3b = 3$

$-2b - 4 + 3b = 3$

$b - 4 = 3$

$b = 7$ $\qquad (9, 7)$

$a = 7 + 2$
$a = 9$

⑩ $3g - 2h = -1$

$8h = 5 + 12g$

$\begin{cases} 12g + 8h = 5 \\ -4(3g - 2h = -1) \end{cases}$ Elim.

$$12g - 8h = -4$$
$$\rightarrow 12g + 8h = 5$$

$$0 \neq 1 \quad \text{No solution}$$

parallel lines

Elim.

① $4\left(\dfrac{1}{4}x + y = \dfrac{7}{2}\right)$ $\qquad$ $x + 4y = 14$

$\qquad 2\left(x - \dfrac{1}{2}y = 2\right)$ $\quad 4(2x - y = 4)$

$$x + 4y = 14$$
$$8x - 4y = 16$$

$$\dfrac{9x}{9} = \dfrac{30}{9}$$

$$x = \frac{10}{3}$$

$$x + 4y = 14$$

$$3\left(\frac{10}{3} + 4y = 14\right)$$

$$10 + 12y = 42$$

$$12y = 32$$

$$y = \frac{32}{12} = \frac{8}{3}$$

$$\left(\frac{10}{3}, \frac{8}{3}\right)$$

$$(3.\overline{3}, 2.\overline{6})$$

$x = $ # of snowboard rentals

$y = $ # of ski rentals

$$\begin{cases} x + y = 28 \\ 19x + 16y = 478 \end{cases} \Rightarrow y = 28 - x$$

$19x + 16(28 - x) = 478$

$19x + 448 - 16x = 478$

$3x = 30$

$x = 10$

$y = 18$