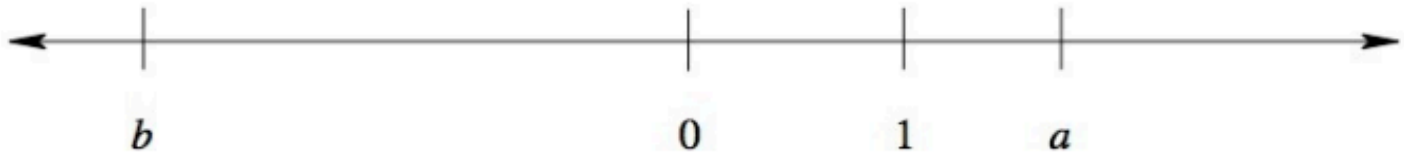
Warm Up 8/ $\left(-\left(-\left(-\left(-\left(-\left(-29\right)\right)\right)\right)\right)\right)$

Throwback Thursday

Created by Mr. Lischwe

A number line is shown below. The numbers 0 and 1 are marked on the line, as are two other numbers a and b.



Which of the following numbers is negative? Choose all that apply. Explain your reasoning.

a. $a - 1$ No

b. $a - 2$ Yes

c. $-b$ No

d. $a + b$ Yes

e. $a - b$ No

f. $ab + 1$ Yes

EVERYONE NEEDS A WHITEBOARD, MARKER & ERASER INSIDE THEIR DESK!

Check Homework

Slightly harder…

5. **Solve for a:** $24 = -2a + 8a + 4b + 6$

$24 = 6a + 4b + 6$

$-6 \qquad -6$

$18 = 6a + 4b$

$-4b \qquad -4b$

$\frac{18}{6} - \frac{4b}{6} = \frac{6a}{6}$ → $3 - \frac{2}{3}b = a$

6. **Solve for ☺:** $\frac{3☺ - 3}{2} = 6☹ \cdot 2$

$3☺ - 3 = 12☹$ → $\frac{3☺}{3} = \frac{12☹}{3} + \frac{3}{3}$ → $☺ = 4☹ + 1$

WHITEBOARDS!!!

Hold it up when you think you have it!

Solve for a

$$\frac{ad}{d} = \frac{f}{d}$$

$$a = \frac{f}{d}$$

Solve for y

$$4xy + 3 = 5z$$

$-3 \quad -3$

$$\frac{4xy}{4x} = \frac{5z-3}{4x}$$

$$y = \frac{5z-3}{4x}$$

Solve for h

$$V = \pi r^2 h$$

$$\frac{V}{\pi r^2} = h$$

Solve for k

$$\frac{2(j+k)}{2} = \frac{m}{2}$$

$$j + k = \frac{m}{2}$$

$$-j \qquad -j$$

$$\boxed{k = \frac{m}{2} - j}$$

Solve for h

$$\frac{3}{h} = (2x + 4)$$

$$\frac{3}{2x+4} = \frac{(2x+4)\cdot h}{2x+4}$$

$$\frac{3}{2x+4} = h$$