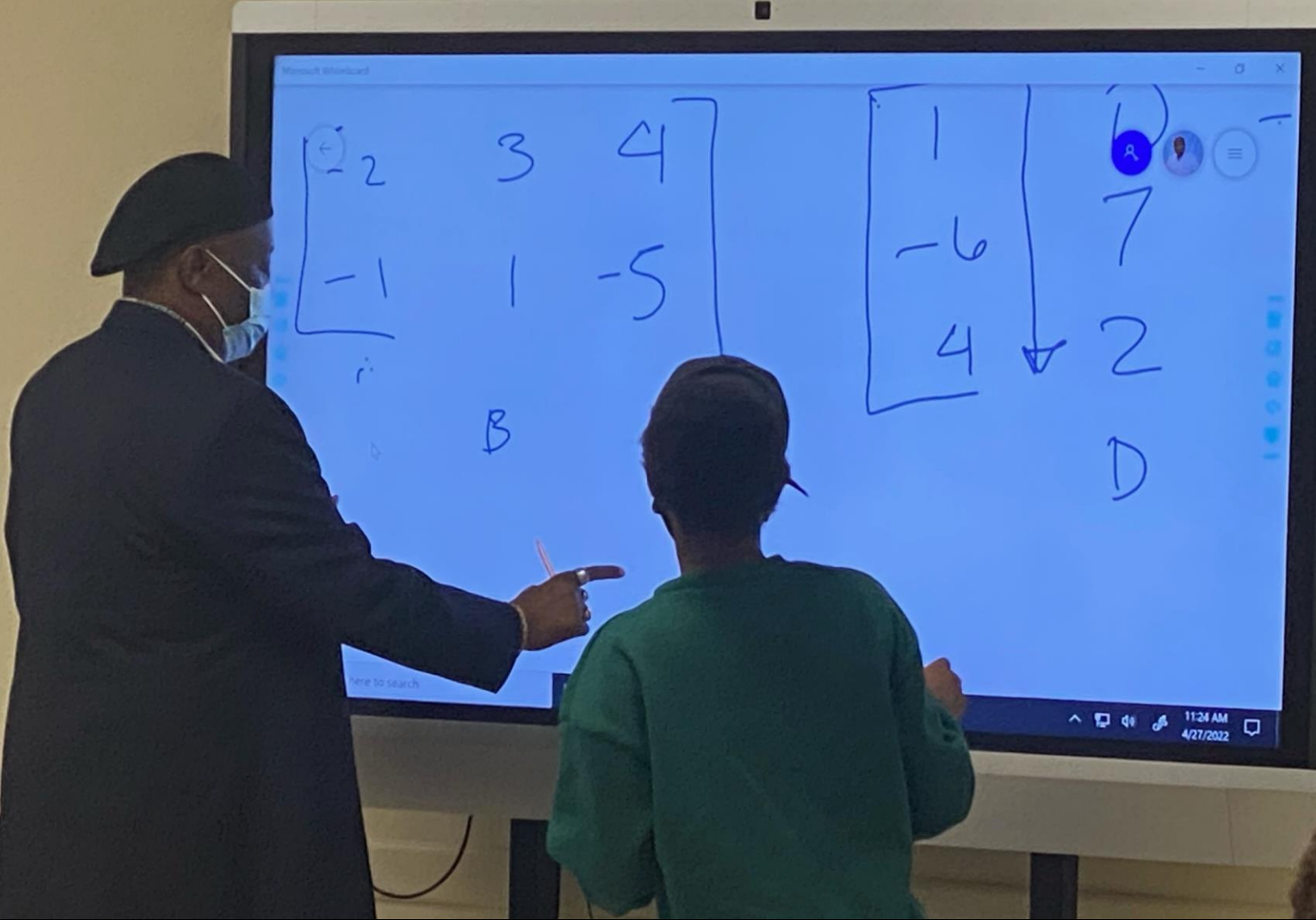




Mathematics, Computer
Science and Physics
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Engaging Work

Use linear approximation to find: $\sqrt[3]{28}$.

$= x^{\frac{1}{3}}$ $f(27) = \sqrt[3]{27} = 3$ point $(27, 3)$

Slope $f'(27) = \frac{1}{3}(27)^{-\frac{2}{3}} = \frac{1}{3 \cdot 9} = \frac{1}{27}$ Slope

Slope: $y - y_1 = m(x - x_1)$

$L(x) = 3 + \frac{1}{27}(x - 27)$

$y - 3 = \frac{1}{27}(x - 27)$
 $+3 \quad +3$

$f(28) = 3 + \frac{1}{27}(28 - 27)$

$\sqrt[3]{28} \approx 3 + \frac{1}{27} (1)$

$3 + 0.037 \approx 3.037$

Pairings

H_1

\neq

$>$

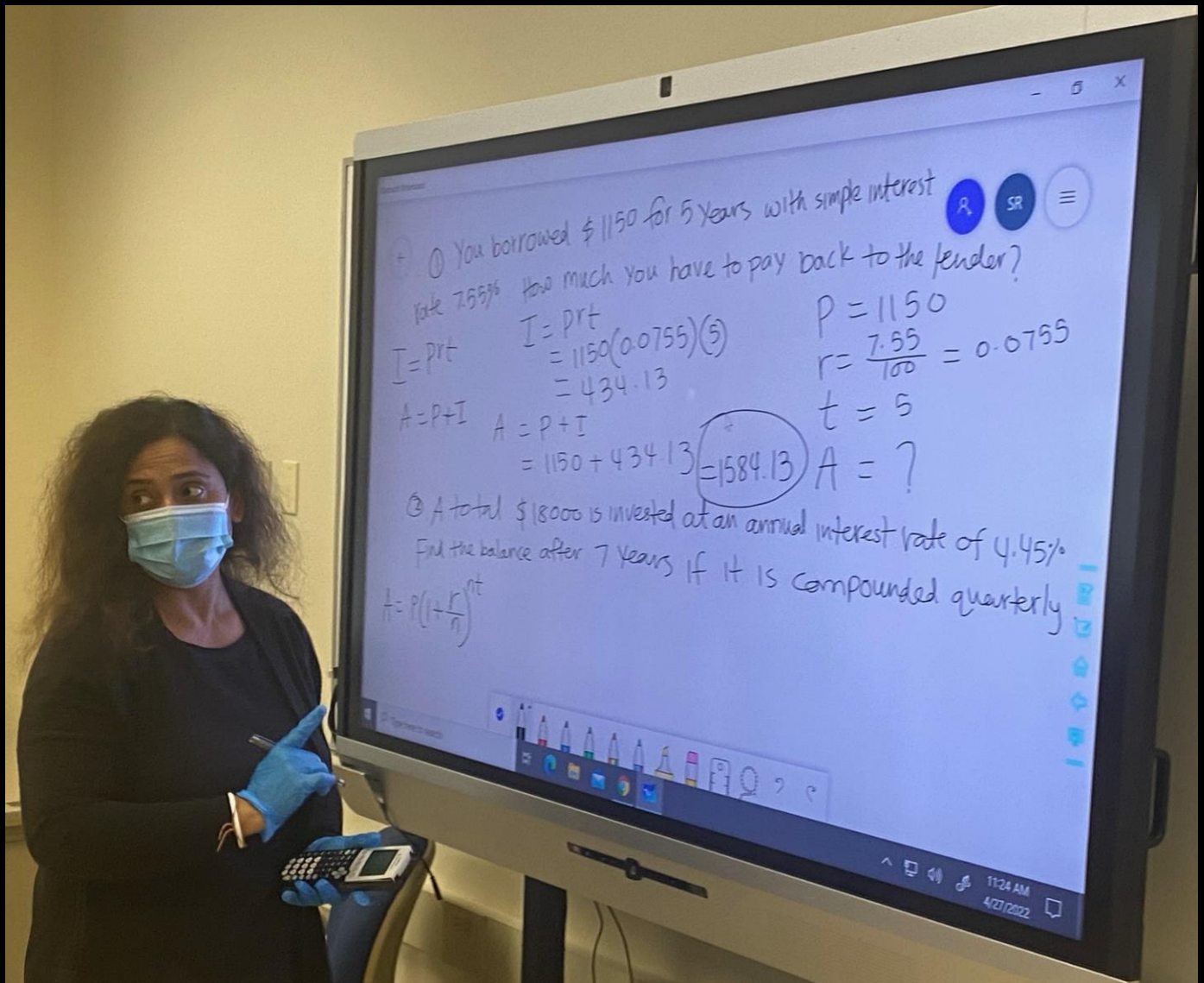
$<$

Conjecture: The average sales per day exceeds \$27000.

$H_0: \mu \leq 27000$

$H_1: \mu > 27000$ (claim)

Engaging Work



Engaging Work



December 2021 Graduation Ceremony



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