## Topic No. 04


\#1

1. Abby is excited about going on a shoe factory tour. There is an entrance fee of $\$ 150$, and each shoe purchased on the tour costs $\$ 100$. Which equation models the relationship between total cost, $y$, and the number of shoes, $x$, Abby buys during the tour?
(A) $y=\frac{x}{150}+100$
(B) $y=150 x+100$
(C) $y=\frac{x}{100}+150$
(D) $y=100 x+150$
2. Bob is excited about going on a factory tour where they make baseballs. Baseballs are available for sale on the tour for $\$ 20$, and there is an entrance fee of $\$ 40$. Which equation models the relationship between total cost, $y$, and the number of baseballs, x , Bob buys during the tour?
(A) $y=\frac{x}{20}+40$
(B) $y=20 x+40$
(C) $y=\frac{x}{40}+20$
(D) $y=40 x+20$

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3. A stock pays an investor $\$ 3,000$ every month, and the investor can sell the stock for $\$ 100,000$ whenever she wants. Which equation models the relationship between total amount in thousands of dollars, $y$, and the number of months, $x$, the investor waits before selling the stock?
(A) $y=\frac{x}{3}+100$
(B) $y=3 x+100$
(C) $y=\frac{x}{100}+3$
(D) $y=100 x+3$
4. Danielle is excited about going on a factory tour where they make hats. Hats are available for sale on the tour for $\$ 40$, and there is an entrance fee of $\$ 20$. Which equation models the relationship between total cost, $y$, and the number of hats, $x$, Danielle buys during the tour?
(A) $y=\frac{x}{20}+40$
(B) $y=20 x+40$
(C) $y=\frac{x}{40}+20$
(D) $y=40 x+20$

