Name

Inverse Property of Operations: Influencer Edition

Part A: Addition & Subtraction - Social Stats

Write an equation for each situation. Let x represent the unknown number.

- 1. Emma started the week with some followers. She gained 350 new followers and now has 1,200.
- 2. Jay lost 45 subscribers after posting a new video. He now has 910 left.
- 3. A gaming streamer earned 2,000 total points after gaining 600 in one round.
- 4. Mia's post got 1,500 likes, which is 300 more than her previous post.
- 5. Alex's total engagement was 4,000 reactions 700 more than last week.

Part B: Multiplication & Division - Views, Merch, and Earnings

Write an equation for each. Let x be the unknown quantity.

- 1. A TikToker's video had 6 times more views this week than last week this week's total was 18,000.
- 2. A YouTuber's earnings are split evenly between 4 videos. If she made \$200 total, how much per video?
- 3. A gaming influencer sold 8 merch items, earning \$240. How much does each item cost?
- 4. A post had 3 times as many comments as another post, for a total of 180 comments.
- 5. A channel's total subscribers doubled to reach 5,000.

Part C: Mixed Operations - Sponsorships & Challenges

Write an equation that models each situation. Let x be the unknown.

- 1. A brand offered an influencer \$50 for each sponsored post plus a \$200 bonus. Her total was \$550.
- 2. A TikTok creator's total watch hours (1,200) were 4 times the number of videos plus 120 hours from a live event.
- 3. A gamer's total score of 950 came from doubling their base score and adding 150 bonus points.
- 4. A fashion influencer's total outfit cost \$260 after adding \$60 in accessories to twice the cost of the main outfit.
- 5. A podcaster earned \$420 from 6 ads plus a \$60 donation.

