

Title: Some simple math on why a divvy is better than a split

Author: montortoise

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I know there's been plenty of work on this already, but my Windows 95 of a brain wanted to see the stock split vs stock dividend debate broken down mathematically. I thought some of you fellow tards might appreciate seeing some tit-jacking math porn.

Let's say there are  $X$  shares of GME originally issued and  $S$  shares are sold short. The total number of shares are a simple sum of  $X$  and  $S$ :

$$\text{Total GME} = X + S$$

#### # STOCK SPLIT

In the case of a stock split, we would simply multiply the Total GME shares by the split amount to find the new total.

$$\text{TotGME after split} = 4 \times (\text{Total GME}) = 4 \times (X + S) = 4X + 4S$$

#### # STOCK DIVIDEND

In the case of a stock dividend, the company issues new shares for every originally issued share not including those sold short. So, we only multiply the original issued shares  $X$  by the dividend amount.

$$\text{TotGME after divvy} = 4 \times X + S$$

#### # Comparison

As you can probably see, the result is not the same. And the wonderful part about it is that:

$$4X + S < 4X + 4S$$

$$\text{TotGME after divvy} < \text{TotGME after splivvy}$$

for all relevant values of  $X$  and  $S$ . In American: the total number of shares after a dividend is less than the total number of shares after a split, but the shorts owe the same quantity of shares in both cases. \*\*This means that the short percentage of the float will increase in the case of the divvy. A divvy is harder on shorts than a splivvy.\*\*

#### # Conclusion

I hope this brief proof is valuable to some of you. Shorts r fuk. Buy, Hodl, DRS ■ 2 Uranus

Sorry mods if this doesn't count as DD. Wasn't sure what else to flair as