

8.EE DVD Profits, Variation 1

Task

- DVDs can be made in a factory in New Mexico at the rate of 20 DVDs per \$3, but the factory costs \$80,000 to build. If they make 1 million DVDs, what is the unit cost per DVD?
- DVDs can be made in a factory in Colorado at the rate of 10 DVDs per \$1.50, but the factory costs \$100,000 to build. If they make 1 million DVDs, what is the unit cost per DVD?
- How much can a buyer save on a million DVDs by buying DVDs from New Mexico instead of DVDs from Colorado?
- Find an equation for the cost of making x number of DVDs in the factory in New Mexico.
- Find an equation for the cost of making x number of DVDs in the factory in Colorado.



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