

Name \_\_\_\_\_ Date \_\_\_\_\_

A Florida factory produces fishing reels at a rate of 800 per day, every day. In April, they are forced to cut their production by  $\frac{1}{5}$  due to an aluminum shortage.

1. A chain of sporting goods stores orders 20,000 fishing reels. Will the factory be able to produce enough fishing reels in the 30 days of April to meet this order? Explain how you know.
2. How many days will it take the factory to produce the 20,000 fishing reels?

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1. Jordan earned \$200 this month delivering newspapers. His mom said he must put 20% into his savings account. He wants to buy headphones that cost \$99.95 and two shirts that cost \$17.99 each. He also has to pay 7% sales tax on his purchases.

Jordan said, “No problem. I will put 20% into savings, buy the things I want, and still have about \$10 left.” Use estimation to determine if Jordan’s calculation is reasonable. Show your work.

2. The circumference of Earth is about 40,030.02 km. The formula for circumference is  $C = 2\pi r$  where  $\pi$  is about 3.14. Jennifer determines the radius of Earth is about 12,700 km. Use estimation to determine if Jennifer’s measurement is reasonable. Show your work.