



Factory Production

The table shows the production results for three factories.

	Production
Factory A	10,000 cars and 2500 trucks manufactured in 10 months.
Factory B	6000 cars and 1200 trucks manufactured in 9 months.
Factory C	9000 cars and 1800 trucks manufactured in 8 months.

1. Write a unit rate that represents the total vehicle production at each factory.

$$\text{Factory A: } \frac{1250 \text{ vehicles}}{1 \text{ month}} \quad \text{Factory B: } \frac{800 \text{ vehicles}}{1 \text{ month}}$$

$$\text{Factory C: } \frac{1350 \text{ vehicles}}{1 \text{ month}}$$

2. Which factory has the fastest rate of production?

Factory C

3. How many vehicles are manufactured at each factory in one year? How many more vehicles does Factory C produce than Factory A in one year?

$$\text{Factory A: } 15,000 \text{ vehicles}$$

$$\text{Factory B: } 9600 \text{ vehicles}$$

$$\text{Factory C: } 16,200 \text{ vehicles} \quad 1200 \text{ more vehicles}$$

4. Suppose Factory A manufactures 500 more cars in their 10-month time period. How many more trucks would Factory A need to manufacture in those 10 months to equal the rate of total vehicle production at Factory C?

500 more trucks