

Unit Ratios / Rates

Solve by equivalent fractions (proportion) or division.

Unit rate is the rate per one unit. Unit rates can be found by division or by equivalent fractions (proportion).

Example. 20 tickets cost \$100, find the cost per ticket, the unit rate.
Cost/ ticket; $\$100/20$, which equals $5/1$ or \$5 per ticket.

$$\begin{array}{r} 5 \\ 20 \overline{)100} \end{array}$$

Hint: Money typically is written in the numerator

1. Frederica paid \$1.15 for 12 eggs at the swap meet, what is the cost per egg? How much would three eggs cost?
2. Ms. Smith paid \$3.50 for 5 pounds of chocolate, how much would she pay for one pound?
3. Ted saved \$225 in four weeks, at that rate, how much did he save per week?
4. If a car can travel 365 miles on 20 gallons of gas, how many miles it can it travel on one gallon?
5. Alfie earns \$29 for tutoring for three hours, at that rate, how much is he earning per hour?
6. The dining club charges \$420 per year (12 months) for membership, how would be the charge per month?
7. If Rob can ride 9 miles per hour on his bike, how many miles can he travel in 6 hours?
8. A grocery store sells a 6-pack of bottled water for \$3.89, a 9 pack for \$4.50 and a 12-pack for \$6.95. Which pack costs the least per bottle?
9. Ted can type 156 words in three minutes, Maria can type 201 words in four minutes, and Jose can type 516 words in ten minutes. Who types the fastest words per minute?

10. The prices of three different bags of chips are the 40 ounce bag for \$4.90, 20 ounce bag for \$2.34, and an eight ounce bag for 98 cents. Which size bag of chips is the cheapest to buy?