

1. If Eddie typed 60 words in 2 minutes, at what rate did he type in words per minute?

2. Dravinia walks at 5 km/h. How far can she walk in 3 hours?

3. Stella drives at 150 km/h. How long will it take her to drive 650 km?

4. Smith bought 17 tubas for \$3009. What was the price per tuba?

5. 16 people go for a hike. They need 5.5 kg of supplies per person. How much will they need altogether?

6. It costs \$2225 per year to support an orphan. How many orphans can be supported with \$300 000 per year?

7. The cost of a bunch of bananas is proportional to its mass, i.e. $c = km$, where c is the cost, m is the mass and k is the constant of proportionality. If 5 kg cost \$17.50, find the value of k .

Hence find the cost of a 14 kg bunch

And find the mass of a bunch that costs \$22.10

8. If 4 people need 7.2 m³ of air to survive for a day, how much will 11 people need?

9. If it takes 12 cleaners 5 hours to clean a school, how long would it take for 8 cleaners to do the job?

Proportion and rates

1. If Josie typed 200 words in 25 minutes, at what rate did she type in words per minute?
2. Crabby jogs at 8 km/h. How far can she jog in $3\frac{1}{2}$ hours?
3. Mary drives at 40 km/h. How long will it take her to drive 220 km?
4. Jones bought 320 kg of soap powder for \$464. What was the price per kilogram?
5. 16 people go to Mars. They need 923 kg of supplies per person. How much will they need altogether?
6. It costs \$147 per day to employ a bouncer. How many bouncers can be employed if you have \$22 000 to last 14 days?

7. The number of hours it takes to bag a cubic metre of gravel is inversely proportional to the number of people doing it, i.e. $h = k/p$ where h is the number of hours, p is the number of people and k is a constant. If it takes 4 people 5 hours, find the value of k .

Hence find the number of hours 3 people would take.

And find the number of people needed to do it in 40 minutes.

8. If it takes 12 cleaners 5 hours to clean a school, how long would it take for 8 cleaners to do the job?