

## Mental Math and Estimation

The pipe straps in the example above each cost \$0.0497. About how much will 50 pipe straps cost?

### PRACTISE YOUR NEW SKILLS

1. A computer repair technician fixes 8 printers for every 2 computers she repairs. What is the simplest form of this ratio? What are two ways you can write this ratio?
2. If a secretary types 55 words per minute, how long will it take her or him to type a 2000-word director's report?
3. An apprentice mechanic rotates the 4 tires on a pick-up truck in 15 minutes. How long would it take him to rotate the tires on 5 trucks? How long does rotating 2 tires take?
4. An Edmonton car salesperson sells 4 cars on Thursday, 6 on Friday, and an equal number each on Saturday and Sunday, for a total of 36 cars sold over the four days. How many cars were sold each day on Saturday and Sunday? What proportion of the total sales took place on Saturday?
5. The ratio between Siu's height and the height of her brother Tai is 5:6. If Tai is 145 cm tall, how tall is Siu, to the nearest centimetre?
6. If the Sound Source music store makes a profit of \$2550.00 on the sale of 200 DVDs, how much profit would the store make on the sale of 50? On the sale of 900?
7. If a 5-kg jar of olives costs a restaurant \$15.00 through a wholesaler, how many kilograms would it get for \$75.00? How much would it cost the restaurant to buy 20 kilograms?
8. A carpenter wants to mix a shade of stain for a set of kitchen cabinets he is building. The ratio for the shade he wants is 3 parts of Spanish oak to 4 parts of red mahogany. If he needs 12 litres in all, how many litres of each stain does he need?



*This vehicle is a hybrid that is powered by either gasoline or electricity.*