

Percent Applications (Not Money)

People work with percents in many different ways. Here are a variety of situations that don't just involve money.

1. A baseball player had a hit in 35% of his times at bat. If he batted 400 times during a season, how many hits did he have?
2. A student scored 80% on a Maths test. If there were a total of 70 marks, how many marks did the student earn?
3. A boilermaker at the Stanwell power station was making a flange for the cooling tower from a sheet of mild steel. The sheet weighed 880 kg before cutting. There was a 15% wastage of steel when he cut the flange. How much did the flange weigh?
4. A chef buys a whole rump for a banquet.
 - a. The rump weighs 6 kg. 10% of its weight is lost when it is trimmed. How much does it weigh after it is trimmed?
 - b. A further 20% of the weight is lost when it is cooked. How much does it weigh now (round to nearest 100g)?
 - c. About how many 300g portions can be served from the rump?
 - d. If the original rump cost \$5 per kilo, what is the cost of the meat for each portion?
5. In a world with 5 billion people:
 - a. 70% live in under-developed countries.
 - b. 55% don't have access to adequate medical facilities.Translate these percentages into actual numbers (rounded off sensibly).
6. Concrete consists of a mixture of 30% sand, 50% gravel and 20% cement by volume. How much would of each would you need for a rectangular concrete patio whose length is 7500 mm, width is 3500 m and thickness is 60 mm?