



4. A fruit drink is made by combining one part concentrate to five parts water, answer the questions that follow.
- What is the ratio of concentrate to water?
  - According to the ratio, if I use 45 ml of concentrate, how much water must I add to it?
  - How much of the fruit drink have I made if I started with 45 ml of concentrate?
  - If I have used 2.5 cups of concentrate and 12 cups of water, will the fruit drink taste right? If not, will it be too strong or too weak?
  - I decide to make up a different fruit drink that says that the ratio is 2:7 (concentrate : water) how much concentrate must I add to 1,4 l of water?
5. The Right-Fit Clothing Company pays workers in its factory R 57.00 per hour. The maximum number of hours a worker may work in one day is 10 hours but a worker may only work a maximum of 6 days a week. Answer the questions that follow.
- What will a worker earn if he works for 8.5 hours?
  - What will the worker earn if he decides to work the maximum number of hours in a week?
  - What is the shortest amount of time it will take for the worker to earn R 7 410.00?
  - A worker needs R 145 to cover his daily expenses and he wants to save R 5 100, how long must he work for to earn the money? (Assume that he works all day, 6 days a week until he has saved up the money and that he doesn't spend money if he does not work.)
6. The learners at Happy High School write an english exam. The exam is out of 150 marks and they are given 2 and a half hours to write.
- How long is their exam, in minutes?
  - Calculate how fast the learners need to work to ensure that they are finished on time.
7. Calculate the following:
- The price of 1 egg if 6 eggs cost R 11.10
  - The price of 100g of strawberries if 450 g cost R 55.35
  - The price of 1 Kg of flour if 2.5 Kg cost R 20.00
  - The price of 1 kg of yoghurt if 600g cost R15.49
  - The price of 250 ml of Iced tea if 1.5L cost R18.99
8. Convert the following quantities to the desired units.
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|-------------------------|--------------------------|
| a) 17 m → km            | b) R 450.89 → cents      |
| c) 22 days → hours      | d) 300 months → years    |
| e) 4500 seconds → hours | f) 0.4 grams → kilograms |
| g) 200 l → ml           | h) 5 weeks → hours       |