

- 1 There are 250 capsules in a container labelled as containing 30 g of a drug. How many milligrams of the drug is in each capsule?



- 2 A medicine bottle has a capacity of 0.75 L.
- How many tablespoons (15 mL) of medicine does the bottle contain?
  - How many teaspoons (5 mL) of medicine does the bottle contain?
  - The dosage required is 20 mL, three times a day. For how many days will the bottle last?
- 3 Use the rate provided to answer the following questions.
- The concentration of a drug is 25 mg/50 mL. How many mg are there in 10 mL?
  - The concentration of a drug is 100 mg/5 mL. How many mg are there in 2 mL?
  - The concentration of a drug is 18 g/100 mL. How many mg are there in 10 mL?
- 4 Use Fried's rule to find the required infant dose.
- Mikayla aged 6 months, if the adult dose is 15 mL
  - Flynn aged 12 months, if the adult dose is 10 mL
  - Lara aged 15 months, if the adult dose is 20 mL
  - Toby aged 2 years, if the adult dose is 10 mL
- 5 Use Young's rule to find the required dose for these children. Answer to the nearest millilitre.
- Christian who is 4 years old, if the adult dose is 10 mL
  - Indiana who is 8 years old, if the adult dose is 15 mL
  - Gemma who is 3 years old, if the adult dose is 10 mL
  - Alika who is 72 months old, if the adult dose is 30 mL