

A Spoonful of Sugar

Using Ratios

1. As children grown, dosages for medications gradually approach those for adults. Clark's rule is often used to determine the correct dosage for children.

$$\text{Child's dose} = \text{Adult dose} * \frac{\text{Weight of child in pounds}}{150 \text{ pounds}}$$

- a. If a child weighs 28 lbs. and the adult dose is 80 milligrams, what dosage should be administered to the child? Support your answer. (round to the nearest whole mg)
- b. According to Clark's rule, how much should a child weigh to receive an adults dosage of a medication?
- c. You are a pharmacist. A child is given 35 mg of a medication. The parent feels this is too much and calls to double check. You request the child's weight (51 lbs.) and look up the adult dosage (105 mg). How would you respond to the parent?

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- a. 1 pt. about 15 milligrams
1 pt. supported answer w/work or explanation
- b. 1 pt. 150 lbs.
- c. 1 pt. The amount is just about right, they have nothing to worry about. 35.7 mg.