ANSWERS

1 **Convert lb to kg:** 29 lb ÷ 2.2 = 13.2 kg
Calculate recommended dose: 13.2 ~~kg~~ x 20 mg/~~kg~~/day = 264 mg/day
Calculate the volume of medication:

$$\frac{\mathbf{D}}{\mathbf{H}} \times \mathbf{Q} = \frac{264\ \cancel{mg}}{10\ \cancel{mg}} \times 1\ mL = 26.4\ mL/day$$

Divided twice a day: 26.4 ÷ 2 = **13.2 mL**

FINAL ANSWER: **13.2 mL**

2 **No conversion needed**
Calculate recommended dose: 25 ~~kg~~ x 10 mg/~~kg~~ = 250 mg
Calculate the volume of medication:

$$\frac{\mathbf{D}}{\mathbf{H}} \times \mathbf{Q} = \frac{250\ \cancel{mg}}{125\ \cancel{mg}} \times 1\ mL = \mathbf{2\ mL}$$

FINAL ANSWER: **2 mL**

3 **Convert lb to kg:** 64 lb ÷ 2.2 = 29.9 kg = 29.1 kg
Calculate recommended minimum dose: 29.1 ~~kg~~ x 10 mg/~~kg~~/day = **291 mg/day**
Calculate recommended maximum dose: 29.1 ~~kg~~ x 15 mg/~~kg~~/day = **436.5 mg/day**
Is the dosage order safe? The ordered dosage is **SAFE.** Child will received 300 mg in a 24-hour period in divided doses of 150 mg BID.

$$\frac{\mathbf{D}}{\mathbf{H}} \times \mathbf{Q} = \frac{150\ \cancel{mg}}{50\ \cancel{mg}} \times 1\ mL = 3\ mL$$

FINAL ANSWER: **3 mL**

Scan for more re sources!

ANSWERS

4 **Convert lb to kg:** 22 lb ÷ 2.2 = 10 kg
Calculate recommended dose: 10 ~~kg~~ x 100 mg/~~kg~~/day = 400 mg/day
Calculate the volume of medication:

$$\frac{D}{H} \times Q = \frac{400\ \cancel{mg}}{400\ \cancel{mg}} \times 5\ mL = 5\ mL/day$$

Divided twice a day: 5 mL ÷ 2 = **2.5 mL**

FINAL ANSWER: 2.5 mL

5 **No conversion needed**
Calculate recommended dose: 18 ~~kg~~ x 10 mg/~~kg~~ = 1800 mg
Calculate the volume of medication:

$$\frac{D}{H} \times Q = \frac{1800\ \cancel{mg}}{40\ \cancel{mg}} \times 1\ mL = \mathbf{45\ mL}$$

FINAL ANSWER: 45 mL

6 **No conversion needed**
Calculate recommended dose: 3 ~~kg~~ x 4 mg/~~kg~~ = 12 mg
Calculate the volume of medication:

Divided twice a day: 12 mg ÷ 2 = **6 mg**

FINAL ANSWER: 6 mg

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