

How many milligrams of



acetaminophen would be a



lethal dose for a 48.0 lb



child?

mass of a 48.0 lb child
lbs \rightarrow kg

$$48.0 \text{ lb} \times \frac{1 \text{ kg}}{2.2 \text{ lb}}$$

$$= 21.8 \text{ kg}$$

LD₅₀ of
acetaminophen
 $= \frac{2404 \text{ mg}}{1 \text{ kg}}$

$$21.8 \text{ kg} \times \frac{2404 \text{ mg}}{1 \text{ kg}} = 5207.2 \text{ mg}$$

lethal dose

How many 500 mg tablets of



acetaminophen would be a



lethal dose for a 48.0 lb



child?

$$5207.2 \text{ mg} \times \frac{1 \text{ tablet}}{500 \text{ mg}} = 104.8 \text{ tablets} \\ \text{or} \\ \sim 105 \text{ tablets}$$

lethal dose

1 tablet of
acetaminophen is
equivalent to
500 mg