



1800	100gts	Safe
1200	1.3	2
2 tabs	Safe	2.5

## Pediatric Medication Math Practice Worksheet

Complete the problems. Show all work using dimensional analysis. Label the answer.

Round gts to the nearest whole number; round everything else to the nearest tenth (one decimal point).

1. Calculate the maintenance fluid requirements per day for Laura whose weight is 21.78 lbs.

$$\frac{21.78 \text{ lbs}}{2.2 \text{ lbs}} = 9.9 \text{ kg} \quad 100 \text{ mL} \times 9.9 \text{ kg} = \boxed{990 \text{ mL} / 24 \text{ hrs}}$$

- a. If Laura was NPO and needed to receive all these maintenance fluids IV, what would you expect the order to read for her IV rate?

$$\frac{990 \text{ mL}}{24 \text{ hrs}} = 41.25 \quad \boxed{= 41.3 \text{ mL/hr}}$$

2. Calculate the maintenance fluid requirements per hour for Monica whose weight is 6.6 kg.

$$100 \text{ mL} \times 6.6 \text{ kg} = 660 \text{ mL} / 24 \text{ hrs}$$

$$\frac{660 \text{ mL}}{24 \text{ hr}} \quad \boxed{= 27.5 \text{ mL/hr}}$$

3. Xavier is 32 kg. Calculate his daily fluid requirement.

$$\begin{aligned} 100 \text{ mL} \times 10 \text{ kg} &= 1000 \text{ mL} / 24 \text{ hrs} \\ 50 \text{ mL} \times 10 \text{ kg} &= 500 \text{ mL} / 24 \text{ hrs} \\ 20 \text{ mL} \times 12 \text{ kg} &= 240 \text{ mL} / 24 \text{ hr} \end{aligned}$$

$$\boxed{1740 \text{ mL} / 24 \text{ hr}}$$

- a. What would Xavier's IV rate be ordered at if he were NPO?

$$\frac{1740 \text{ mL}}{24 \text{ hr}} \quad \boxed{= 72.5 \text{ mL/hr}}$$

# Pediatric Med Math Practice Problems

**LL Leslie**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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