


### Calculating gtts per minute

- **Example 1** We have an available IV administration set that delivers 10 gtts/ml. 0.9% NaCl (0.9% Sodium Chloride) has been prescribed to run IV at a rate of 150 ml/1 hr. The IV should infuse at how many gtts/min?

We will find the answer in 5 steps:

- Step 1 - Write down the prescribed rate
- Step 2 - Write down the IV set rate
- Step 3 - Write down the conversion factor
- Step 4 - Reduce the units
- Step 5 - Perform the math

When calculating drops round your answer to the nearest whole number.



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Step 1      Step 2      Step 3      Step 5 Reduce the answer & include the units.

$$\frac{150 \cancel{\text{ml}}}{1 \cancel{\text{hour}}} \times \frac{10 \text{ gtts}}{1 \cancel{\text{ml}}} \times \frac{1 \cancel{\text{hour}}}{60 \text{ min}} = \frac{150 \times 10 \times 1 \text{ gtts}}{1 \times 1 \times 60 \text{ min}} = \frac{1500 \text{ gtts}}{60 \text{ min}} = \frac{25 \text{ gtts}}{1 \text{ min}}$$

Step 4 

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**Calculating gtts per minute**

- Example 2** 350 ml of D5 in Lactated Ringer's (5% Dextrose in Lactated Ringer's Solution) has been prescribed for IV infusion over 1 hr. You are using an IV administration set that delivers 15 gtts/ml. The IV should infuse at how many gtts/min?

We will find the answer in 5 steps:

- Step 1 - Write down the prescribed rate
- Step 2 - Write down the IV set rate
- Step 3 - Write down the conversion factor
- Step 4 - Reduce the units
- Step 5 - Perform the math

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We will find the answer in 5 steps:

- Step 1 - Write down the prescribed rate
- Step 2 - Write down the IV set rate
- Step 3 - Write down the conversion factor
- Step 4 - Reduce the units
- Step 5 - Perform the math

Round drops to the nearest whole number.  
 $87.5 = 88$  gtts/min

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Step 1      Step 2      Step 3      Step 5 Reduce the answer & include the units.

$$\frac{350 \cancel{\text{ml}}}{1 \cancel{\text{hour}}} \times \frac{15 \text{ gtts}}{1 \cancel{\text{ml}}} \times \frac{1 \cancel{\text{hour}}}{60 \text{ min}} = \frac{350 \times 15 \times 1 \text{ gtts}}{1 \times 1 \times 60 \text{ min}} = \frac{5250 \text{ gtts}}{60 \text{ min}} = \frac{87.5 \text{ gtts}}{1 \text{ min}}$$

Step 4

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