

# NURSING CALCULATIONS

## Flow Rate, Drip Rate and Volume

- |   |  |
|---|--|
| <p><b>1</b> Order: N/Saline 500 mls, 4/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>     | <p><b>6</b> Order: N/Saline 750 mls, 12/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>   |
| <p><b>2</b> Order: N/Saline 1000 mls, 12/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>   | <p><b>7</b> Order: Hartman's Sol 2 litres, 24/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>   |
| <p><b>3</b> Order: 5% Dextrose 1500 mls, 8/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p> | <p><b>8</b> Order: 5% Dextrose 500 mls, 8/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>   |
| <p><b>4</b> Order: N/Saline 500 mls, 24/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>    | <p><b>9</b> Order: N/Saline 0.5 litre, 4/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>  |
| <p><b>5</b> Order: N/Saline 1 litre, 4/24</p> <p><b>a</b> Calculate the hourly rate (mL/h)</p> <p><b>b</b> Calculate the drip rate of a macrodrip</p> <p><b>c</b> Calculate the drip rate of a microdrip.</p>     | <p><b>10</b> Calculate the volume of fluid a patient is receiving every minute if</p> <p><b>a</b> Flow Rate: 60 drops/minute<br/>Drop Factor: 20 drops per mL</p> <p><b>b</b> Flow Rate: 20 drops/minute<br/>Drop Factor: 5 drops per mL</p> <p><b>c</b> Flow Rate: 40 drops/minute<br/>Drop Factor: 10 drops per mL</p> <p><b>d</b> Flow Rate: 54 drops/minute<br/>Drop Factor: 16 drops per mL</p> |

### Answers

- |                        |          |                                      |
|------------------------|----------|--------------------------------------|
| <b>1</b> a 125 ml/hour | b 42 dpm | c 125 dpm                            |
| <b>2</b> a 83 ml/hour  | b 28 dpm | c 84 dpm                             |
| <b>3</b> a 188 ml/hour | b 63 dpm | c 188 dpm                            |
| <b>4</b> a 21 ml/hour  | b 7 dpm  | c 21 dpm                             |
| <b>5</b> a 250 ml/hour | b 84 dpm | c 250 dpm                            |
| <b>6</b> a 63 ml/hour  | b 21 dpm | c 63 dpm                             |
| <b>7</b> a 83 ml/hour  | b 28 dpm | c 84 dpm                             |
| <b>8</b> a 63 ml/hour  | b 21 dpm | c 63 dpm                             |
| <b>9</b> a 125 ml/hour | b 42 dpm | c 125 dpm                            |
| <b>10</b> a 3 mL       | b 4 mL   | c 4 mL                      d 3.4 mL |