NURSING CALCULATIONS

Flow Rate, Drip Rate and Volume

1  Order: N/Saline 500 mls, 4/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

2  Order: N/Saline 1000 mls, 12/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

3  Order: 5% Dextrose 1500 mls, 8/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

4  Order: N/Saline 500 mls, 24/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

5  Order: N/Saline 1 litre, 4/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

6  Order: N/Saline 750 mls, 12/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

7  Order: Hartman’s Sol 2 litres, 24/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

8  Order: 5% Dextrose 500 mls, 8/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

9  Order: N/Saline 0.5 litre, 4/24
   a  Calculate the hourly rate (mL/h)
   b  Calculate the drip rate of a macrodrip
   c  Calculate the drip rate of a microdrip.

10 Calculate the volume of fluid a patient is receiving every minute if
      a  Flow Rate: 60 drops/minute
         Drop Factor: 20 drops per mL
      b  Flow Rate: 20 drops/minute
         Drop Factor: 5 drops per mL
      c  Flow Rate: 40 drops/minute
         Drop Factor: 10 drops per mL
      d  Flow Rate: 54 drops/minute
         Drop Factor: 16 drops per mL

Answers

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