## Drops per minute (DPM) - Practice Exercises Answers

## Answer 1

Total volume $=550 \mathrm{ml}$
Total time to administer $=2.5$ hours
Drop factor $=20$
So, Drops per minute (DPM) =
$\frac{550}{2.5} \times \frac{20}{60}=\frac{550}{2.5 \times 3}=73.33$ drops per minute

## Answer 2

Total volume $=2.5 \mathrm{~L}=2.5 \times 1000=2500 \mathrm{ml}$
Total time to administer= 8 hours
Drop factor $=15$
So, Drops per minute (DPM) =
$\frac{2500}{8} \times \frac{15}{60}=\frac{2500}{8 \times 4}=78.125$ drops per minute

## Answer 3

Total volume $=2 \mathrm{~L}=(2 \times 1000)=2000 \mathrm{ml}$
Time $=480$ minutes $=\frac{480}{60}$ hour $=8$ hour
Drop factor $=60$
So, Drops per minute (DPM) =
$\frac{2000}{8} \times \frac{60}{60}=\frac{2000}{8}=250$ drops per minute

## Answer 4

Total volume $=1300 \mathrm{ml}$
Time $=480$ minutes $=8$ hours
Drop factor $=20$
So, Drops per minute (DPM) =
$\frac{1300}{8} \times \frac{20}{60}=\frac{1300}{8 \times 3}=54.17$ drops per minute

## Answer 5

Total volume $=250 \mathrm{ml}$
Infusion rate $=10 \mathrm{ml} / \mathrm{hr}$
Drop factor $=20$
We can write the DPM formula like this:
Drops per minutes $=$ Infusion rate $(\mathrm{ml} / \mathrm{hr}) \times \frac{\text { Drop factor }}{60}$
So, DPM=
$10 \times \frac{20}{60}=\frac{200}{60}=3.33$ drops per minute

## Answer 6

Drop factor $=20$
DPM= 70
Volume remaining $=750 \mathrm{ml}$
So, Time remaining=
$\frac{750}{70} \times \frac{20}{1}=\frac{15000}{70}=214.28$ minute
Convert the minutes into hours:
$(214.28 \div 60)$ hour $=3.57$ hours

## Answer 7

Total volume $=2.5 \mathrm{~L}=2500 \mathrm{ml}$
Infusion rate $=125 \mathrm{ml} / \mathrm{hr}$
Drop factor= 20
We can write the DPM formula like this:
Drops per minutes $=$ Infusion rate $(\mathrm{ml} / \mathrm{hr}) \times \frac{\text { Drop factor }}{60}$
So, DPM=
$125 \times \frac{20}{60}=\frac{125}{3}=41.66$ drops per minute

## Answer 8

Drop factor $=60$
DPM $=90$
Volume remaining $=1.2 \mathrm{~L}=1200 \mathrm{ml}$
So, Time remaining=
$\frac{1200}{90} \times \frac{60}{1}=\frac{2400}{3}=800$ minute
Convert the minutes into hours:
$(800 \div 60)$ hour $=13.33$ hours

