

Drops per minute (DPM) - Worksheet Answers

Answer 1

Total volume = 280 ml

Total time to administer= 4 hours

Drop factor = 60

So, Drops per minute (DPM) =

$$\frac{280}{4} \times \frac{60}{60} = \frac{280}{4} = 70$$
 drops per minute

Answer 2

Total volume = 750 ml

Total time to administer = 6 hours

Drop factor = 20

So, Drops per minute (DPM) =

$$\frac{750}{6} \times \frac{20}{60} = \frac{15000}{360} = 41.66$$

Answer 3

Total volume = $3 L = (3 \times 1000) = 3000 mls$

Time= 6 hours

Drop factor = 15

So, Drops per minute (DPM) =

$$\frac{3000}{6} \times \frac{15}{60} = \frac{3000}{24} = 125$$



Answer 4

Total volume = 1500 mls

Time= 480 minutes =
$$\frac{480}{60}$$
 = 8 hours

Drop factor = 15

So, Drops per minute (DPM) =

$$\frac{1500}{8} \times \frac{15}{60} = \frac{1500}{32} = 46.87$$

Answer 5

Total volume = 950 ml

Infusion rate= 120 ml/hr

Drop factor= 60 (micro drip set can only have drop factor 60)

We can write the DPM formula like this:

Drops per minutes= Infusion rate (
$$^{ml}/_{hr}$$
) $\times \frac{^{Drop \, factor}}{^{60}}$

So, from Example 3, DPM=
$$120 \times \frac{60}{60} = 120$$

Answer 6

Drop factor = 60

DPM= 200

Volume remaining= 2.25 L = 2250 mls

So, Time remaining=

$$\frac{2250}{200} \times \frac{60}{1} = \frac{225 \times 6}{2} = 675$$
 minutes

Convert the minutes into hours:

$$(675 \div 60)$$
 hour = 11.25 hours