



## Leaks and Fills - set samples - paper 1

1. A hose is filling a bucket at a rate of 25 ml per minute. How long will it take to fill a 1-litre bucket?

ans \_\_\_\_\_

2. A bottle leaks water at 100 ml per minute. How much water leaks out in 20 minutes? Give your answer in litres.

ans \_\_\_\_\_

3. A tap uses 13 litres of water per minute. How many litres of water are used in 10 minutes?

ans \_\_\_\_\_



## Leaks and Fills - set samples - Answers

1. 1 litre = 1000 ml  
Rate = 25 ml per minute  
Time = Total volume / Rate  
Time =  $1000/25$   
Time = 40 minutes  
**Answer: 40 minutes**
2. Rate = 100 ml per minute  
Time = 20 minutes  
Volume = Rate  $\times$  Time  
Volume =  $100 \times 20$   
Volume = 2000 ml  
2000 ml = 2 litres  
**Answer: 2 litres**
3. Rate = 13 litres per minute  
Time = 10 minutes  
Volume = Rate  $\times$  Time  
Volume =  $13 \times 10$   
Volume = 130 litres  
**Answer: 130 litres**