

Scottish Fire and Rescue Service

Pre-Selection Testing - Calculation Test

| Candidate name | Date | Question Reference |
|-------------------|----------------|--------------------|
| <i>John Smith</i> | <i>15/5/19</i> | 104 |

Question 1.

A firefighter wearing breathing apparatus has enough air to last 13 minutes. If the firefighter enters a fire at 02:00, what time will the air in the breathing apparatus last until?

| | | |
|--------|--------------|-----|
| Answer | <i>02:13</i> | hrs |
|--------|--------------|-----|

Question 2.

A firefighter wearing breathing apparatus has enough air to last 25 minutes. If the firefighter enters a fire at 13:45, what time will the air in the breathing apparatus last until?

| | | |
|--------|--------------|-----|
| Answer | <i>14:10</i> | hrs |
|--------|--------------|-----|

A breathing apparatus set is fitted with a gauge in order that the wearer can monitor how much air is left in the cylinder. The air left in the cylinder is measured in 'bars'.

As a firefighter enters a fire the gauge reads 290 bars

Question 3.

On the first check of the contents, the gauge now reads 280 bars. How much air has the wearer used? (Do not round the answer)

| | | |
|--------|-----------|------|
| Answer | <i>10</i> | bars |
|--------|-----------|------|

Question 4.

On the second check of the gauge the contents now read 102 bars. How much air has the wearer used in total since first entering the fire? (Do not round the answer)

| | | |
|--------|------------|------|
| Answer | <i>188</i> | bars |
|--------|------------|------|

Working (not marked)

Question 1 02:00hrs + 13 minutes = 02:13hrs

Question 2 13:45hrs + 25 minutes = 14:10hrs

Question 3 290 bars - 280 bars = 10 bars

Question 4 290 bars - 102 bars = 188 bars