International Chemistry Olympiad
Baku, 20-29 July 2015

Statistical data on the problems
# Experiment in brief

<table>
<thead>
<tr>
<th>No.</th>
<th>Exp.</th>
<th>Max</th>
<th>Avg. %</th>
</tr>
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<tbody>
<tr>
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<td>1</td>
<td>15</td>
<td>48.1</td>
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<tr>
<td></td>
<td>2</td>
<td>12</td>
<td>54.6</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>13</td>
<td>20.6</td>
</tr>
</tbody>
</table>

Avg. result in experiment – 40.92%
Exp. 1. Tuning bromination selectivity by catalysis

Avg. result – 48.1%
Exp. 2. Analysis of the solution of a chromium-vanadium alloy

Avg. result – 54.6%
Exp.3. Kinetic determination of Diclofenac (DCF)

Avg. result – 20.6%
Experiment total

Min – 1.67%, max – 83.19%, avg. – 40.92%
## Theory in brief

<table>
<thead>
<tr>
<th>No.</th>
<th>1</th>
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<th>3</th>
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<th>5</th>
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<tr>
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<td>7</td>
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<td>6</td>
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<tr>
<td>Avg. %</td>
<td>45.3</td>
<td>40.5</td>
<td>52.0</td>
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<td>44.1</td>
<td>29.3</td>
<td>56.8</td>
<td>33.4</td>
</tr>
</tbody>
</table>

Avg. result in theory – 41.25%
Th. 1. New and well-forgotten old refrigerants

Avg. result – 45.3%
Th. 2. Coupling of chemical reactions

Avg. result – 40.5%
Th. 3. Two binding centers – competition or cooperation?

Avg. result – 52.0%
Th. 4. From one yellow powder to another: A simple inorganic riddle

Avg. result – 26.1%
Th. 5. Indispensable glucose

Avg. result – 44.1%
Th. 6. Bread is the stuff of life

Avg. result – 29.3%
Th. 7. Not by bread alone

Avg. result – 56.8%
Th. 8. Oil for Life and Life after Oil

![Chart showing distribution of points (% of participants) across different score ranges (0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80, 80-90, 90-100). The average result is 33.4%.]

Avg. result – 33.4%
Min – 4.54%, max – 98.07%, avg. – 41.25%
Min – 4.60%, max – 84.38%, avg. – 41.1%