## 2012.05.11 - 5.=-UTF-8-Q-Klassenarbeit=20L=C3=B6sung-=

| 1. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | |
| | **90** | x | x | x | | x | x | | | x | x | |
| | **420** | x | x | x | x | x | x | x | | | x | **10** |
| | **770** | x | x | | | x | | x | | | x | |

| 2. | | | |
|---|---|---|---|
| | **a)** | $165 = 3 \cdot 5 \cdot 11$ | **3** |
| | **b)** | $210 = 2 \cdot 3 \cdot 5 \cdot 7$ | **4** |
| | **c)** | $1320 = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 \cdot 11$ | **6** |
| | **d)** | $1170 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 \cdot 5 \cdot 13$ | **7** |

| 3. | | | |
|---|---|---|---|
| | **a)** | $1; 3; 6; 10; 15; 21; 28; 36; 45; 55$ | **3** |
| | **b)** | $1; 4; 9; 16; 25; 36; 49; 64; 81; 100$ | **3** |
| | **c)** | $8; 81; 625$ | **3** |
| | **d)** | $1; 11; 1\,2\,1; 1\,3\,3\,1; 1\,4\,6\,4\,1$ | **3** |

| 4. | | | |
|---|---|---|---|
| | **a)** | $1 + 3 + 9 = 13 < 27$ | **4** |
| | **b)** | $1 + 2 + 3 + 4 + 6 + 9 + 12 + 18 = 55 > 36$ | **4** |
| | **c)** | $1 + 2 + 4 + 7 + 14 = 28 = 28$ | **4** |

| 5. | | | |
|---|---|---|---|
| | **a)** | $13 = 49 - 36; \ 23 = 144 - 121; \ 81 = 225 - 144$ | **3** |
| | **b)** | z.B. $25 - 9 = 16; \ 49 - 9 = 40; \ 49 - 25 = 24$ | **3** |
| | **c)** | z.B. $9 = 25 - 16; \ 36 = 100 - 64$ | **3** |

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