



**Nr. Ergebnis**

- 28** a) 1, 2, 4, 8, 11, 22, 44, 88      b) 88, 176, 264  
c)  $\approx 70$ : 65, 66, 67, 68, 69, 70, 71, 72, 73, 74  
d)  $\approx 90$ : 85, 86, 87, 88, 89, 90, 91, 92, 93, 94
- 29** 1101, 111, 31, 21, 15
- 30** b) CDXXXIV      c) MCMXXXV      d) XLIV      e) XCIX      f) CCCLXXXIV  
g) DCCCLXVI      h) MCDXCI      i) MCMXCVIII      j) MMXX
- 31** b) 79      c) 43      d) 194      e) 688      f) 417  
g) 3 500      h) 1 949      i) 1 435      Herr des Ringes: 25. 12. 2005
- 32** a) 429 690      b) 8 788 390      c) 195 942      d) 10 243 984      e) 923 511  
f) 600 000 000 000
- 33** a) vierhundertelf      b) dreihunderttausendachthundertvierundzwanzig  
c) neunundachtzig Millionen      d) neunundvierzigtausendundzwei  
e) vierzehn Billionen fünfhundert Milliarden dreihundert Millionen  
f) dreihundertfünfundvierzig Milliarden zwanzig Millionen neununddreißig  
g) acht Billiarden
- 34** 134 900, 1 HT 3 ZT 4 T 9 H;      700 100 200, 7 HM 1 HT 2 H;  
77 000 010 303, 7 ZMd 7 Md 1 ZT 3 H 3 E;      60 066 000, 6 ZM 6 ZT 6 T;  
1 000 340 000 308, 1 B 3 HM 4 ZM 3 H 8 E;      8870 000 000, 8 Md 8 HM 7 ZM;  
82 000 520 000 300, 8 ZB 2 B 5 HM 2 ZM 3 H
- 35** 6 500 090, 860 060 100, 2 222 000 002, 5 000 800 000 000, 602 878, 534 000 002 000,  
98 706 543
- 36** 50, 50, 100, 120, 300, 880, 1 090, 1 000
- 37** 400, 700, 900, 1 300, 4 500, 9 000, 600, 29 900
- 38** Zehner: 5 410, 8 560, 76 150, 48 340    Hunderter: 5 400, 8 600, 76 200, 48 300    Tausen-  
der: 5 000, 9 000, 76 000, 48 000
- 39** 80 000, 50 000, 70 000, 150 000, 270 000, 100 000, 5 670 000, 80 000
- 40** 80, 200, 300 000, 700 000, 63 000 000
- 41** A) 5      B) 16      C) 39      D) 53      E) 74  
A) 220      B) 350      C) 540      D) 670      E) 960  
A) 555      B) 566      C) 589      D) 603      E) 624
- 42**
- 43** 1) <    2) =    3) <    4) >    5) <    6) >    7) <    8) >    9) >    10) >  
11) =    12) >    13) >    14) <    15) =    16) =    17) <    18) <    19) <    20) =  
21) >    22) =    23) =    24) =    25) >    26) <    27) =    28) >    29) >    30) >  
31) >    32) <

**Nr. Ergebnis**

- 44** **3)** 1, 3      **4)** 1, 2, 4      **5)** 1, 5      **6)** 1, 2, 3, 6      **7)** 1, 7  
**8)** 1, 2, 4, 8      **9)** 1, 3, 9      **11)** 1, 11      **12)** 1, 2, 3, 4, 6, 12  
**13)** 1, 13      **14)** 1, 2, 7, 14      **15)** 1, 3, 5, 15      **16)** 1, 2, 4, 8, 16      **17)** 1, 17  
**18)** 1, 2, 3, 6, 9, 18      **19)** 1, 19      **20)** 1, 2, 4, 5, 10, 20  
**21)** 1, 3, 7, 21      **22)** 1, 2, 11, 22      **23)** 1, 23      **24)** 1, 2, 3, 4, 6, 8, 12, 24  
**25)** 1, 5, 25      **26)** 1, 2, 13, 26      **27)** 1, 3, 9, 27      **28)** 1, 2, 4, 7, 14, 28  
**29)** 1, 29      **30)** 1, 2, 3, 5, 6, 10, 15, 30
- 45** **a)** |; |; †; |; †; †      **b)** |; |; |; †; †; †; †      **c)** |; †; †; †; †; †
- 46**  $T(27) = 1, 3, 9, 27$        $T(100) = 1, 2, 4, 5, 10, 20, 25, 50, 100$   
 $T(29) = 1, 29$        $T(125) = 1, 5, 25, 125$   
 $T(50) = 1, 2, 5, 10, 25, 50$        $T(99) = 1, 3, 9, 11, 33, 99$   
 $T(54) = 1, 2, 3, 6, 9, 18, 27, 54$        $T(123) = 1, 3, 41, 123$
- 47** **a)** 6, 12, 18, 24, 30, 36, 42, 48, 54, 60  
**b)** 7, 14, 21, 28, 35, 42, 49, 56, 63, 70  
**c)** 9, 18, 27, 36, 45, 54, 63, 72, 81, 90  
**d)** 12, 24, 36, 48, 60, 72, 84, 96, 108, 120  
**e)** 25, 50, 75, 100, 125, 150, 175, 200, 225, 250  
**f)** 39, 78, 117, 156, 195, 234, 273, 312, 351, 390  
**g)** 57, 114, 171, 228, 285, 342, 399, 456, 513, 570  
**h)** 72, 144, 216, 288, 360, 432, 504, 576, 648, 720
- 48** 40, 45, 12, 24, 70, 54, 24, 35, 14, 2, 81, 112, 10, 32, 80, 14, 90, 12, 64, 42, 21, 60, 20, 56, 50, 48, 49, 56, 16, 30, 80, 28, 25, 30, 16, 63, 63, 3, 54, 50, 140, 21, 140, 18, 27, 20, 98, 28, 52, 96, 22, 16, 15, 70, 9, 110, 4, 24, 42, 160, 68, 48, 6, 5, 6, 170, 40, 9, 38, 4, 42, 18, 40, 44, 10, 30, 32, 102, 120, 36, 6, 120, 72, 24, 24, 45, 70, 112, 20, 40, 60, 119, 12, 80, 35, 12, 171, 20, 150, 18
- 49** 12, 24, 24, 21, 24, 10, 70, 63, 160, 12, 30, 200, 40, 20, 160, 4, 35, 6, 15, 30, 18, 18, 42, 56, 14, 6, 28, 64, 70, 102, 42, 98, 84, 20, 60, 30, 15, 24, 12, 18, 63, 27, 120, 21, 24, 72, 4, 18, 80, 81, 16, 42, 65, 72, 16, 32, 16, 40, 48, 56, 90, 60, 36, 14, 49, 10, 27, 180, 30, 54, 45, 54, 144, 10, 26, 133, 48, 36, 50, 152, 35, 190, 112, 96, 40, 100, 40, 70, 33, 45, 114, 28, 8, 90, 90, 36, 50, 60, 80, 144
- 50** 96, 99, 34, 190, 162, 33, 140, 36, 20, 40, 12, 60, 126, 126, 152, 133, 84, 180, 102, 17, 72, 90, 117, 64, 91, 130, 171, 120, 90, 66, 65, 80, 140, 104, 48, 180, 57, 52, 120, 77, 98, 26, 135, 112, 38, 144, 76, 95, 108, 54, 44, 114, 32, 108, 11, 144, 160, 28, 78, 30, 60, 19, 22, 96, 45, 68, 119, 100, 84, 88, 56, 72, 112, 160, 153, 48, 24, 110, 85, 13, 51, 200, 150, 60, 36, 42, 128, 80, 105, 70, 136, 120, 15, 39, 16, 75, 18, 170, 55, 14

**Nr. Ergebnis**

- 51** 170, 65, 190, 90, 76, 90, 11, 44, 144, 162, 162, 77, 28, 126, 126, 36, 20, 20, 60, 65, 36, 140, 64, 128, 42, 180, 160, 66, 78, 68, 117, 110, 18, 16, 48, 60, 24, 108, 120, 30, 100, 40, 19, 84, 190, 90, 60, 10, 66, 55, 136, 135, 160, 20, 160, 96, 38, 80, 90, 108, 48, 77, 85, 52, 84, 57, 105, 136, 120, 50, 144, 108, 150, 40, 200, 171, 180, 180, 160, 104, 112, 14, 80, 120, 171, 48, 144, 80, 14, 70, 130, 51, 75, 100, 76, 60, 32, 34, 45, 12
- 52** 182, 247, 240, 121, 260, 252, 306, 170, 190, 240, 198, 323, 361, 208, 187, 168, 150, 132, 304, 195, 300, 266, 380, 400, 238, 156, 100, 266, 340, 168, 198, 260, 270, 228, 169, 280, 182, 130, 160, 342, 221, 156, 120, 209, 324, 200, 240, 210, 270, 165, 196, 323, 190, 360, 170, 288, 234, 176, 180, 150, 300, 120, 165, 289, 200, 216, 160, 228, 256, 204, 216, 224, 224, 285, 380, 220, 238, 285, 180, 143, 110, 140, 225, 280, 360, 180, 288, 208, 192, 110, 192, 221, 204, 272, 240, 143, 144, 154, 209, 320
- 53** 2, 2, 8, 3, 8, 2, 10, 4, 2, 4, 4, 7, 3, 10, 3, 3, 9, 8, 2, 7, 1, 9, 6, 6, 7, 1, 5, 9, 6, 10, 1, 10, 7, 8, 9, 8, 8, 4, 1, 3, 4, 10, 6, 8, 7, 6, 8, 10, 7, 5, 5, 5, 1, 4, 5, 7, 10, 7, 9, 4, 2, 5, 6, 6, 5, 8, 9, 9, 4, 6, 1, 2, 7, 9, 3, 9, 10, 2, 6, 1, 1, 1, 3, 5, 4, 4, 8, 6, 10, 8, 3, 3, 2, 1, 2, 22, 8, 6, 9
- 54** 17, 17, 14, 19, 11, 17, 17, 11, 15, 20, 17, 12, 16, 19, 15, 11, 19, 16, 19, 15, 12, 10, 13, 13, 16, 14, 13, 15, 16, 20, 18, 13, 14, 17, 15, 19, 16, 18, 18, 16, 10, 11, 19, 11, 20, 20, 16, 10, 17, 13, 16, 11, 17, 11, 18, 12, 15, 12, 13, 20, 10, 18, 10, 19, 12, 12, 18, 10, 19, 18, 14, 14, 15, 16, 17, 20, 15, 10, 10, 10, 12, 12, 13, 20, 11, 14, 15, 12, 19, 11, 18, 14, 13, 17, 13, 14, 14, 20, 11, 20
- 55** 117, 2, 6, 74, 28, 20, 5, 4, 155, 200, 180, 68, 40, 1, 95, 158, 7, 9, 133, 14, 144, 61, 70, 89, 10, 100, 85, 79, 10, 76, 17, 178, 182, 15, 150, 144, 180, 7, 168, 108, 70, 193, 142, 50, 8, 199, 2, 4, 18, 63, 30, 168, 5, 1, 8, 7, 31, 16, 50, 178, 10, 2, 184, 2, 163, 6, 30, 39, 18, 177, 6, 103, 190, 24, 178
- 56** 10, 82, 146, 194, 102, 7, 18, 125, 7, 48, 190, 99, 20, 66, 14, 17, 5, 82, 43, 14, 60, 11, 17, 16, 90, 138, 2, 8, 1, 165, 104, 14, 84, 150, 10, 252, 224, 3, 153, 83, 10, 146, 4, 68, 6, 96, 34, 83, 190, 68, 68, 3, 144, 162, 304, 195, 67, 8, 200, 18, 49, 8, 184, 9, 20, 15, 5, 260, 100, 39, 69, 106, 13, 149, 159
- 57** 802, 9, 925, 967, 744, 112, 551, 87, 896, 349, 941, 928, 285, 770, 879, 561, 664, 232, 574, 121, 864, 191, 231, 821, 124, 318, 166, 500, 442, 965, 625, 907, 691, 606, 763, 725, 952, 981, 239, 922, 593, 990, 222, 846, 285, 331, 622, 244, 300, 354, 772, 380, 182, 840, 888, 678, 421, 6, 448, 568, 266, 173, 687, 109, 779, 570, 132, 648, 798, 294, 756, 585, 355, 946, 35
- 58** 3672, 7540, 3192, 311, 3890, 6, 7133, 3547, 5, 6768 Lösungswort: Fußballfan
- 59** 748, 4008, 4549, 156, 543, 25, 645 Lösungswort: Abseits
- 60** 8, 1959, 149, 4396, 687, 246, 6403, 2 Lösungswort: Halbzeit
- 61**