1. Answer is option C **Explanation:** $2+1^2+1=4$ $4+2^{2}+2=10$ $10+3^2+3=22$ $22+4^2+4=42$ $42+5^2+5=72$ $72+6^2+6 = 114$ 2. Answer is option D **Explanation:** 4*.5 = 22*1 = 2 $2^{2} = 4$ 4*4 = 1616*8 = 128 3. Answer is option A **Explanation**: 15/1 = 15 $15^{*}2 = 30$ 30/3 = 1010*4 = 4040/5 = 88*6 = 48 4. Answer is option E **Explanation**: 2*1+1 = 33*2+2=88*3+3 = 27 27*4+4 = 112112*5+5 = 5655. Answer is option D **Explanation**: 5*1+1 = 66*2-2 = 1010*3+3 = 33

33*4-4 = 128

SOLUTIONS

128*5+5 = 6456. Answer is option B **Explanation**: 27, 50, 192, 1140, 9104, ? 27*2-4 = 5050*4-8 = 192192*6-12 = 11401140*8-16 = 91049104*10-20 = 91020 7. Answer is option C **Explanation:** 4, 7, 13, 23, 38, 59, ? $\vee \vee \vee \vee \vee \vee \vee$ 3 6 10 15 21 28 $\vee \vee \vee \vee \vee$ 3 4 5 6 7 There should be 59+28 = 87 8. Answer is option A **Explanation:** 6, 11, 32, 111, 464, ? 6*1+5 = 11 $11^{*}2 + 10 = 32$ 32*3+15 = 111 $111^*4+20 = 464$ 464*5+25 = 23459. Answer is option D **Explanation:** 2, 12, 36, 80, ?, 252, 392 $1^2 + 1^3 = 2$ $2^{2}+2^{3}=12$ $3^2+3^3=36$ $4^{2}+4^{3}=80$ $5^2 + 5^3 = 150$ $6^2 + 6^3 = 252$ $7^2 + 7^3 = 392$

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10. Answer is option D **Explanation:** 2, 6, 33, 49, 174, 210, ? $1+1^3 = 2$ $2+2^2 = 6$ $6+3^3 = 33$ $33+4^2 = 49$ $49+5^3 = 174$ $174+6^2 = 210$ $210+7^3 = 553$ 11. Answer is option D **Explanation:** 6, 8, 14, 26, 46, 76, ? $\vee \vee \vee \vee \vee \vee$ 2 6 12 20 30 42 $\vee \vee \vee \vee \vee$ 4 6 8 10 12 There should be 76+42 = 11812. Answer is option C **Explanation:** 4*1 = 44*1.5 = 66*2 = 1212*2.5 = 3030*3 = 90 $90^*3.5 = 315$ 13. Answer is option C **Explanation**: 3*1+1 = 44*2+2 = 1010*3+3 = 3333*4+4 = 136136*5+5 = 685685*6+6 = 4116

14. Answer is option C **Explanation:** $5 \times 1 + 1^2 = 5 + 1 = 6$ $6 \times 2 + 2^2 = 12 + 4 = 16$ $16 \times 3 + 3^2 = 48 + 9 = 57$ $57 \times 4 + 4^2 = 228 + 16 = 244$ $244 \times 5 + 5^2 = 1245$ 15. Answer is option C **Explanation**: $5 \times 0.5 + 0.5 = 3$ $3 \times 1 + 1 = 4$ $4 \times 1.5 + 1.5 = 7.5$ $7.5 \times 2 + 2 = 17$ $17 \times 2.5 + 2.5 = 45$ 16. Answer is option A **Explanation:** 9+11 = 2011+20=3131+51= 82 82+51= 133 17. Answer is option B **Explanation:** $5 + (1^2) = 5 + 1 = 6$ $6 + (2^2) = 6 + 4 = 10$ $10 + (3^2) = 10 + 9 = 19$ $19 + (4^2) = 19 + 16 = 35$ $35 + (5^2) = 35 + 25 = 60$ $60 + (6^2) = 60 + 36 = 96$ 18. Answer is option C **Explanation:** $24 + 2^2 = 24 + 4 = 28$ $28 - 3^2 = 28 - 9 = 19$ $19 + 4^2 = 19 + 16 = 35$ $35 - 5^2 = 35 - 25 = 10$ $10 + 6^2 = 10 + 36 = 46$

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19. Answer is option B **Explanation:** 2, 5, 9, 19, 37, The pattern is: every number is arrived at previous number multiplied by 2 and then alternate addition and subtraction by 1 i.e. 2 5=2×2+1 9=5×2-1 $19=9\times2+1$ 37=19×2-1 the next term $37 \times 2 + 1 = 75$ 20. Answer is option B **Explanation**: $9 = 4 \times 2 + 1$ $17 = 9 \times 2 - 1$ $35 = 17 \times 2 + 1$ $69 = 35 \times 2 - 1$ $139 = 69 \times 2 + 1$ $277 = 139 \times 2 - 1$ 21. Answer is option D **Explanation**: $9^*.5+.5=5$ 5*1+1 = 66*1.5+1.5 = 10.510.5*2+2 = 2323*2.5+2.5 = 6060*3+3 = 18322. Answer is option A **Explanation:** 16, 20, 29, 45, 70, 106, ? \vee \vee \vee \vee \vee \vee 4 9 16 25 36 49 Squares of consecutive numbers, the next term should be 106+49 = 155

23. Answer is option C **Explanation**: 7*1+5 = 1212*2+5 = 2929*3+5 = 9293*4+5 = 373 373*5+5 = 1870 24. Answer is option A **Explanation**: 4, 9, 20, 37, 60, 89, ? $\vee \vee \vee \vee \vee \vee$ 5 11 17 23 29 35 \vee \vee \vee \vee \vee 6 6 6 6 6 There should be 89+35 = 12425. Answer is option B **Explanation**: 11, 13, 18, 28, 45, ? $\vee \vee \vee \vee \vee$ 2 5 10 17 26 $\vee \vee \vee \vee$ 3 5 7 9 There should be 45+26 = 7126. Answer is option C **Explanation**: 8, 20, 44, 92, 188, ? \vee \vee \vee \vee \vee 12 24 48 96 192 $12 \times 2 = 24$ $24 \times 2 = 48$ $48 \times 2 = 96$ $96 \times 2 = 192$ There should be 188+192 = 380

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27. Answer is option C **Explanation:** $9 \times 1 + 1 = 10$ $10 \times 2 + 2 = 22$ $22 \times 3 + 3 = 69$ $69 \times 4 + 4 = 280$ $280 \times 5 + 5 = 1405$ 28. Answer is option A **Explanation:** 215 + cube of 1 = 216216-cube of 2 = 208208 + cube of 3 = 235235-Cube of 4 = 171171 + cube of 5 = 29629. Answer is option E **Explanation:** 12, 7, 8, 13, 27, ? $12 \times 0.5 + 1 = 7$ $7 \times 1 + 1 = 8$ $8 \times 1.5 + 1 = 13$ $13 \times 2 + 1 = 27$ $27 \times 2.5 + 1 = 68.5$ 30. Answer is option A **Explanation:** 5, 6, 10, 37, 53, 188, ? $5+1^3 = 6$ $6+2^2 = 10$ $10+3^3 = 37$ $37+4^2 = 53$ $53+5^3 = 188$ $188+6^2 = 224$ 31. Answer is option B **Explanation**: $3 + (1^2) = 3 + 1 = 4$ $4 + (2^2) = 4 + 4 = 8$ $8 + (3^2) = 8 + 9 = 17$ $17 + (4^2) = 17 + 16 = 33$

 $33 + (5^2) = 33 + 25 = 58$ $58 + (6^2) = 58 + 36 = 94$ 32. Answer is option C **Explanation:** $24 + 2^2 = 24 + 4 = 28$ $28 - 3^2 = 28 - 9 = 19$ $19 + 4^2 = 19 + 16 = 35$ $35 - 5^2 = 35 - 25 = 10$ $10 + 6^2 = 10 + 36 = 46$ 33. Answer is option D **Explanation:** 2, 12, 36, 80, ?, 252, 392 $1^{2}+1^{3}=2$ $2^{2}+2^{3}=12$ $3^{2}+3^{3}=36$ $4^{2}+4^{3}=80$ $5^2 + 5^3 = 150$ $6^{2}+6^{3}=252$ $7^2 + 7^3 = 392$ 34. Answer is option D **Explanation:** 2, 6, 33, 49, 174, 210, ? $1+1^3 = 2$ $2+2^2 = 6$ $6+3^3 = 33$ $33+4^2 = 49$ $49+5^3 = 174$ $174+6^2 = 210$ $210+7^3 = 553$ 35. Answer is option A **Explanation:** 15/1 = 15 $15^{*}2 = 30$ 30/3 = 1010*4 = 40 40/5 = 88*6 = 48

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36. Answer is option E **Explanation:** 2*1+1 = 33*2+2 = 88*3+3 = 27 27*4+4 = 112112*5+5 = 56537. Answer is option C **Explanation**: 4*1 = 44*1.5 = 66*2 = 12 12*2.5 = 3030*3 = 9090*3.5 = 31538. Answer is option C **Explanation**: 3*1+1 = 44*2+2 = 1010*3+3 = 3333*4+4 = 136136*5+5 = 685685*6+6 = 4116 39. Answer is option D **Explanation**: 4*1+1 = 55*2-2 = 88*3+4 = 28 28*4-8 = 104104*5+16 = 53640. Answer is option A **Explanation:** 12, 15, 25, 42, 66, 97, ? $\vee \vee \vee \vee \vee \vee$ 3 10 17 24 31 38 $\vee \vee \vee \vee \vee$ 77777

There should be 97+38 = 135 41. Answer is option D **Explanation**: 447 - 433 = 14462 - 447 = 15462 + 16 = 478478 - 462 = 16495 - 478 = 17513 - 495 = 1842. Answer is option E **Explanation**: $7 \times 5 = 35$ $35 \times 6 = 210$ $210 \times 5 = 1050$ $1050 \times 6 = 6300$ $6300 \times 5 = 31500$ 43. Answer is option D **Explanation**: $5 \times 3 - 5 = 10$ $10 \times 3 - 5 = 25$ $25 \times 3 - 5 = 70$ $70 \times 3 - 5 = 205$ $205 \times 3 - 5 = 610$ 44. Answer is option A **Explanation**: 7, 11, 19, x, 67, 131 7 + 4 = 1111 + 8 = 1919 + 16 = 3535 + 32 = 6767 + 64 = 13145. Answer is option C **Explanation**: $65 \times 2 = 130$ $130 \times 3 = 390$ $390 \times 4 = 1560$ $1560 \times 5 = 7800$

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 $7800 \times 6 = 46800$ 46. Answer is option C **Explanation:** $17 \times 3 + 1 = 52$ $52 \times 3 + 1 = 158$ $158 \times 3 + 1 = 477$ $477 \times 3 + 1 = 1435$ $1435 \times 3 + 1 = 4310$ 47. Answer is option D **Explanation**: $3 \times 7 + 1 = 22$ $22 \times 6 + 2 = 134$ $134 \times 5 + 3 = 532$ $532 \times 4 + 4 = 2132$ 48. Answer is option A **Explanation**: $6 \times 1 + 1 \times 7 = 13$ $13 \times 2 + 2 \times 6 = 38$

 $38 \times 3 + 3 \times 5 = 129$ $129 \times 4 + 4 \times 4 = 532$ $532 \times 5 + 5 \times 3 = 2675$ 49. Answer is option E **Explanation:** $286 \div 2 = 143 - 1 = 142$ $142 \div 2 = 71 - 1 = 70$ $70 \div 2 = 35 - 1 = 34$ $34 \div 2 = 17 - 1 = 16$ $16 \div 2 = 8 - 1 = 7$ 50. Answer is option C **Explanation**: $17 \times 0.5 + 0.5 = 9$ $9 \times 1 + 1 = 10$ $10 \times 1.5 + 1.5 = 16.5$ $16.5 \times 2 + 2 = 35$ $35 \times 2.5 + 2.5 = 90$



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