

1) 平方关系:

11-121, 12-144 13-169, 14-196, 15-225, 16-256, 17-289, 18-324, 19-361, 20-400

2) 立方关系:

2-8, 3-27, 4-64, 5-125, 6-216, 7-343, 8-512, 9-729, 10-1000

(1). 5, 6, 8, 10, 14, () A. 12 B. 14 C 16 D 18

$5=2+3$

$6=3+3$

$8=5+3$

$10=7+3$

$14=11+3$

$16=13+3$

连续质数+3 的数列

(2). -11,-4,-3,-2,() A.-1, B.0 C.3 D.5

$(-2)^3-3=-11$

$(-1)^3-3=-4$

$0^3-3=-3$

$1^3-3=-2$

$2^3-3=5$

(3). 77,63,23,18,41,31,() A. -5, B.6 C.12 D.18

$77+23=100=10^2$

$$63+18=81=9^2$$

$$23+41=64=8^2$$

$$18+31=49=7^2$$

$$41 + (-5) = 36 = 6^2$$

间隔相加是平方数

(4) 1,7,19,37,() A. 57 B.61 C.66 D.80

$7 - 1 = 6$

$19 - 7 = 12$

$37 - 19 = 18$

$$61 - 37 = 24$$

等差数列。

或者是

$$1^2 - 0 = 1$$

$$3^2 - 2 = 7$$

$$5^2 - 6 = 19$$

$$7^2 - 12 = 37$$

$$9^2 - 20 = 61$$

0, 2, 6, 12, 20 差为 2, 4, 6, 8

(5) 2,6,10,18,32,() A 57, B. 58 C.61 D.63

$$6 + (2 + 6) / 2 = 10$$

$$10 + (6 + 10) / 2 = 18$$

$$18 + (10 + 18) / 2 = 32$$

$$32 + (18 + 32) / 2 = 57$$

(6) 2, 2, 3, 5, 14, () A. 50 B. 55 C. 63 D. 69

$2 \times 2 - 1 = 3$

$2 \times 3 - 1 = 5$

$3 \times 5 - 1 = 14$

$5 \times 14 - 1 = 69$

(7) $7/3, 5/2, 6/5, 11/9, 2/11, 7/11, 8,$ () A $9/7$ B 9 C $13/11$ D $7/6$

两两一组

$(7+3) / (7-3) = 10/4 = 5/2$

$(6+5) / (6-5) = 11/1$

$(9+2) / (9-2) = 11/7$

$8 = 8/1 = (8+1) / (8-1) = 9/7$

(8) 0,10,24,68,120,() A 196 B.210 C 216 D 222

$1^3 - 1 = 0$

$2^3 + 2 = 10$

$3^3 - 3 = 24$

$4^3 + 4 = 68$

$5^3 - 5 = 120$

$6^3 + 6 = 222$

(9) (9,2,7),(4,3,8),(49,12,31),(0,17,?) A.34 B.51 C.49 D. 47

$9 \text{ 开 } 2 \text{ 次方 } + 2 \times 2 = 7$

$4 \text{ 开 } 2 \text{ 次方 } + 3 \times 2 = 8$

$49 \text{ 开 } 2 \text{ 次方 } + 12 \times 2 = 31$

$0 \text{ 开 } 2 \text{ 次方 } + 17 \times 2 = 34$

(10) 21,17,22,21,31,37,() A.48 B.53 C.56 D 61

$22 - 21 = 1$

$21 - 17 = 4$

$31-22=9$

$37-21=16$

$56-31=25$

(11) 2, 12, 23, 52, () A 61 B 74 C 76 D 82

$2=0+2$

$1+2=3$

$2+3=5$

$5+2=7$

$7+4=11$

(12) 1, 1, 2, 6, 8, 11, () A 13 B 17 C 18 D 20

$1+1+2=4$

$1+2+6=9$

$2+6+8=16$

$6+8+11=25$

$8+11+17=36$

(13) 3, 3, 9, 33, 93, () A 210 B 213 C 216 D 222

$3-3=0=1^3-1$

$9-3=6=2^3-2$

$33-9=24=3^3-3$

$93-33=60=4^3-4$

$213-93=120=5^3-5$

(14) (7,28,4), (3, 16, 16), (10, 20, 10) , (21, ? , 9) A 108 B 63 C 41 D 27

$(7\times 4)/1=28$

$(3\times 16)/3=16$

$(10\times 10)/5=20$

$(21 \times 9) / 7 = 27$

(15) 4, 11, 17, 20, 15, 1, () A -24, B -16 C 16 D 24

$(11+17) - 2 \times 4 = 20$

$(17+20) - 2 \times 11 = 15$

$(20+15) - 17 \times 2 = 1$

$(15+1) - 20 \times 2 = -24$

(16) 6,9,15,21,33,() A. 51 B.48 C.42 D.39

$6 = 2 \times 3$

$9 = 3 \times 3$

$15 = 5 \times 3$

$21 = 7 \times 3$

$33 = 11 \times 3$

$39 = 13 \times 3$

(17) 2,3,9,36,360,() A.13320 B.13322 C.12320 D12322

$(2+1) \times 3 = 9$

$(3+1) \times 9 = 36$

$(9+1) \times 36 = 360$

$(36+1) \times 360 = 13320$

(18) (14,13,3), (22,25,7), (36,?,23) A.56 B.64 C.67 D.72

$14 / 2 + 3 \times 2 = 13$

$22 / 2 + 7 \times 2 = 25$

$36 / 2 + 23 \times 2 = 64$

(19) 5,32,81,128,125,() A. 0 B.216 C.144 D.189

$5 = 5 \times 1^3$

$32 = 4 \times 2^3$

$$81=3 \times 3^3$$

$$128 = 2 \times 4^3$$

$$125=1 \times 5^3$$

$$0 = 0 \times 6^3$$

(20) 0,7,8,63,24,() A. 0 B.255 C.215 D.323

$$1^2 - 1 = 0$$

$$2^3 - 1 = 7$$

$3*2-1=8$

$$4*3-1=63$$

$$5^2-1=24$$

$$6^3 - 1 = 215$$

(21). 2,6,12,22,36,() A.48 B.58 C.64 D.68

$$6-2=2*2$$

$12-6=2*3$

$22-12=2*5$

$$36-22=2*7$$

$$58 - 36 = 2 * 11$$

(22). 4,8,32,128,() A. 256 B.512 C 1024 D.2048

$$2^2=4$$

$$2^3=8$$

$$2^5=32$$

$$2^7=128$$

$2^{11}=2048$

(23). 7,9,20,62,() A. 194 B.198 C.102 D.250

$7*1+2=9$

$9*2+2=20$

$20*3+2=62$

$62*4+2=250$

(24). (12,13,7),(23,31,9),(43,12,10),(37,16,?) A.45 B.32 C.19 D.13

$1*1+2*3=7$

$2*3+3*1=9$

$4*1+3*2=10$

$3*1+7*6=45$

(25). 3,1,12,16,30,100,39,() A. 177 B.189 C.98 D.169

$(3/3)^2=1$

$(12/3)^2=16$

$(30/3)^2=100$

$(39/3)^2=169$

(26) 11,24,35,42,47,() A.50 B.51 C.52 D.53

$24-11=13$

$35-24=11$

$42-35=7$

$47-42=5$

$50-47=3$

(27) 13,7,8,17,43,() A. 67 B.112 C.84 D.126

$7 \times 3 - 13 = 8$

$8 \times 3 - 7 = 17$

$17 \times 3 - 8 = 43$

$43 \times 3 - 17 = 112$

(28) 3,11/5,15/7,2,21/11,() A.23/11 B.23/13 C.21/13 D.25/14

$6/2, \ 11/5, \ 15/7, \ 18/9, \ 21/11,$

$6-2=4$

$11-5=6$

$15-7=8$

$18-9=9$

$21-11=10$

选项符合分子一分母是合数序列的 12

$23-11=12$ 选 A

(29) (12,7,9),(46,55,1),(12,86,8),(23,13,?) A.4 B.6 C.8 D.10

看个位数计算

$2+7=9$

$6+5=11$

$2+6=8$

$3+3=6$

(30) 2,6,30,60,130, () A.180 B.200 C.210 D.240

$1^3+1=2$

$2^3-2=6$

$3^3+3=30$

$4^3-4=60$

$5^3+5=130$

$6^3-6=210$

(31) 3, 4, 21, 75, 288, () A 900 B 1089 C 1098 D 1200

$(3+4) \times 3=21$

$(4+21) \times 3=75$

$(21+75) \times 3=288$

$(75+288) \times 3=1089$

(32) 7, 5, 2, 3, -1, () A. 0 B.2 C 4 D -4

$A-C=B$

$7-2=5$

$5-3=2$

$2-(-1)=3$

$3-4=-1$

(33) (2, 3, 13) , (3, 2, 15) , (4, 5, ?)

A. 19 B.31 C 40 D 24

$3^2+2\times3=15$

$4^2+5\times3=31$

(34) 0, 1, 2, 9, 44, () A. 121 B.196 C.265 D 300

$1=0\times2+1$

$2=1\times3-1$

$9=2\times4+1$

$44=9\times5-1$

$265=44\times6+1$

(35) 5, 2, 1, 2, 5, () A. 2 B.5 C.8 D.10

$2-5=-3$

$1-2=-1$

$2-1=1$

$5-2=3$

$10-5=5$

或者隔项减

$1-5=-4$

$2-2=0$

$5-1=4$

$10-2=8$

(36) 1, 3, 3, 5, 4, 6, () A.6 B.7 C.8 D.9

$$3+3=6$$

$$3+5=8$$

$$5+4=9$$

$$4+6=10$$

$$6+6=12$$

(37)、 $-2, -3, 0, 27,$ () A.64 B.128 C.162 D.192

$$-2 \times 3^0 = -2$$

$$-1 \times 3^1 = -3$$

$$0 \times 3^2 = 0$$

$$1 \times 3^3 = 27$$

$$2 \times 3^4 = 162$$

(38)、 $0, 0, 1, 5, 23,$ () A.46 B.97 C.108 D.119

$$0! - 1 = 0$$

$$1! - 1 = 0$$

$$2! - 1 = 1$$

$$3! - 1 = 5$$

$$4! - 1 = 23$$

$$5! - 1 = 119$$

! 表示阶乘

(39) 59 33, 18, 8, 5, () A.0 B.1 C.2 D.3

$59-33=26=5^2+1$

$33-18=15=4^2-1$

$18-8=10=3^2+1$

$8-5=3=2^2-1$

$5-3=2=1^2+1$

(40) 、 2, 5, 11, 41, 911, ()

A.756941 B.640011 C.630011 D.670031

$(5-2)^2+2=11$

$(11-5)^2+5=41$

$(41-11)^2+11=911$

$(911-41)^2+41=756941$ (看尾数是否是 41)

(41) 2,2,0,4,16,() A.48 B.64 C.128 D.144

$(2-2)^2=0$

$(2-0)^2=4$

$(0-4)^2=16$

$(4-16)^2=144$

(42) 5,14,34,76,() A.142 B.163 C.169 D.176

$$1$$

$$14=3\times 5-1$$

$$34=5\times 7-1$$

$$76=7\times 11-1$$

$$?=11\times 13-1=142$$

$$(43) \ 3,3,6,18,72,(\) \ A.256 \ B.288 \ C.360 \ D.384$$

$$3/3=1$$

$$6/3=2$$

$$18/6=3$$

$$72/18=4$$

$$360/72=5$$

$$(44) \ 15,9,3,3,0,(\) \ A.1.5 \ B.-1.5 \ C. \ -2 \ D.-3$$

$$(15-9)/2=3$$

$$(9-3)/2=3$$

$$(3-3)/2=0$$

$$(3-0)/2=1. \ 5$$

$$(45) \ 0,1,0,7,20,(\) \ A.32 \ B.34 \ C.37 \ D.42$$

$$0+1+0=1=1^3$$

$$1+0+7=8=2^3$$

$$0+7+20=27=3^3$$

$$7+20+37=64=4^2$$

(46) $-1/2, 1/3, 4/5, 9/7, 16/9, ()$

A. $25/13$ B. $23/13$ C. $24/11$ D. $19/11$

$$1+2=1$$

$$1+3=4$$

$$4+5=9$$

$$9+7=16$$

$$16+9=25$$

$$23+13=36$$

选 B

(47) $1, 2, 2, 5, 9, 16, ()$

A. 22 B. 26 C. 30 D. 34

$$1+2+2=5$$

$$2+2+5=9$$

$$2+5+9=16$$

$$5+9+16=30$$

(48) $2, 0, 0, 4, 6, ()$

A. 3 B. 6 C. 12 D. 24

$$-2 \times (-1)^5 = 2$$

$$-1 \times 0^4 = 0$$

$$0 \times 1^3 = 0$$

$$1 \times 2^2 = 4$$

$3 \times 4^0 = 3$

(49) (6, 4, 15) , (7,2,21), (3,2,1), (5,3,?)

A.10, B. 15 C.18 D. 12

$6 * 4 - 9 = 15$

$7 * 2 + 7 = 21$

$3 * 2 - 5 = 1$

$5 * 3 + 3 = 18$

/*此题质量不高，可不用做*/

(50) 2, 1, 5, 6, 31, ()

A. 45 B.67 C.72 D.78

$2^2 + 1 = 5$

$1^2 + 5 = 6$

$5^2 + 6 = 31$

$6^2 + 31 = 67$

(51) 7, 28, 124, 344, ()

A.990 B.1330 C.1432 D.1691

$2^3 - 1 = 7$

$3^3 + 1 = 28$

$5^3 - 1 = 124$

$7^3 + 1 = 344$

$11^3-1=1330$

(52) 37, 55, 82, 127, ()

A.193 B.188 C.172 D.165

$3+7=10$

$5+5=10$

$8+2=10$

$1+2+7=10$

$1+7+2=10$ 选 C

(53) 146, 255, 366, 479, ()

A. 581 B.583 C.891 D.1000

看中间数字 146, 255, 366, 479

$4^2=16$ 合成 146

$5^2=25$ 合成 255

$6^2=36$ 合成 366

$7^2=49$ 合成 479

选项中只有 C满足

(54) 1, 2, 5, 14, 53, ()

A. 102 B.202 C.302 D.402

$1^2+2\times 2=5$

$2^2+5\times 2=14$

$5^2+14\times 2=53$

$14^2+53\times 2=302$

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