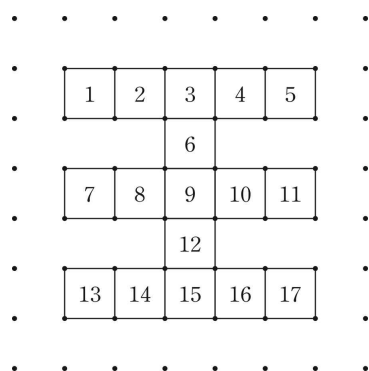


2020 Eye Level MATH Olympiad [Grade1]

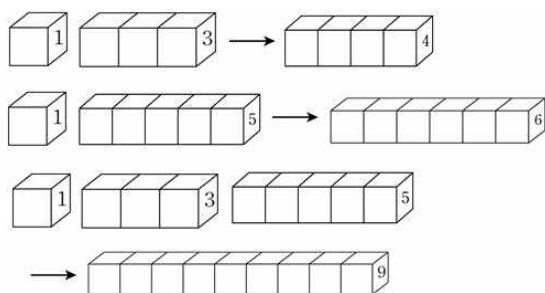
| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 25 | 11 | 27 | 21 | 142 | 31 | 19 | 41 | 4 |
| 2 | 20 | 12 | 22 | 22 | 721 | 32 | 59 | 42 | 29 |
| 3 | 8 | 13 | 5 | 23 | 1,012 | 33 | 19 | 43 | ② |
| 4 | 6 | 14 | 7 | 24 | 26 | 34 | 19 | 44 | 17 |
| 5 | 6 | 15 | 22 | 25 | 698 | 35 | 15 | 45 | ② |
| 6 | 5 | 16 | 3 | 26 | 577 | 36 | 4 | 46 | ③ |
| 7 | 15 | 17 | 8 | 27 | 162 | 37 | 18 | 47 | ③ |
| 8 | 19 | 18 | 18 | 28 | 632 | 38 | 365 | 48 | 6 |
| 9 | 23 | 19 | 26 | 29 | 2,548 | 39 | 118 | 49 | 14 |
| 10 | 18 | 20 | 118 | 30 | 8,091 | 40 | 48 | 50 | 7 |

【Sol】

44. The answer is 17.

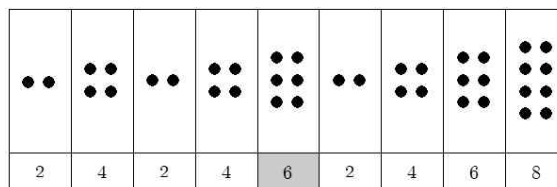


46. Possible lengths that can be made with the given blocks are as follows:

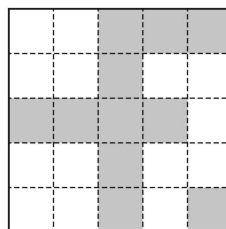


So 7 of the option ③ is not a possible length to come up with using the blocks given.

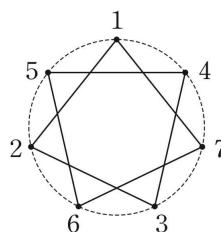
48. Following the pattern along the number of circles, six circles need to be put in the column.



49. The answer is 14.



50. The answer is 7.

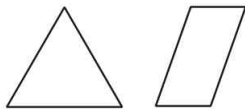


2020 Eye Level MATH Olympiad [Grade2]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 127 | 11 | 6 | 21 | 576 | 31 | 61 | 41 | 2 |
| 2 | 133 | 12 | 18 | 22 | 608 | 32 | 242 | 42 | 67 |
| 3 | 467 | 13 | 54 | 23 | 873 | 33 | 9 | 43 | ③ |
| 4 | 398 | 14 | 49 | 24 | 1,458 | 34 | 86 | 44 | ③ |
| 5 | 901 | 15 | 126 | 25 | 1,566 | 35 | 65 | 45 | ② |
| 6 | 1,300 | 16 | 215 | 26 | 32,674 | 36 | 100 | 46 | ④ |
| 7 | 36 | 17 | 396 | 27 | 7R4 | 37 | 600 | 47 | 14 |
| 8 | 18 | 18 | 87 | 28 | 8R6 | 38 | 21 | 48 | 9 |
| 9 | 36 | 19 | 2,573 | 29 | 8R31 | 39 | 22 | 49 | 12 |
| 10 | 19 | 20 | 225 | 30 | 25R16 | 40 | 9 | 50 | 15 |

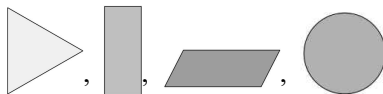
【Sol】

41. The following 2 figures cannot be made:

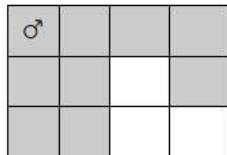


42. $A=20$, $B=47$

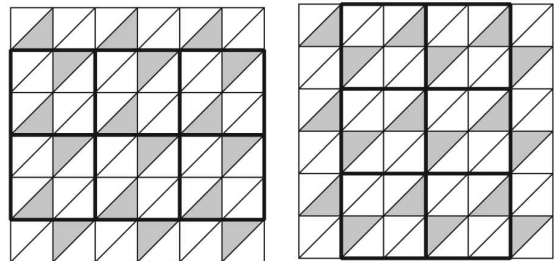
43. Below are the figures in order from the most bottom.



48. The answer is 9.



49. The figure on the right looks as below.



The number of the patterns is 12.

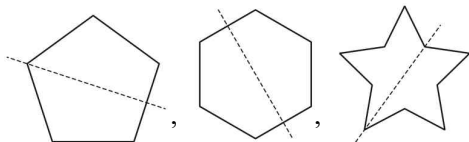
50. 10, 20, 21, 30, 31, 32, 40, 41, 42, 43, 50, 51, 52, 53, 54

2020 Eye Level MATH Olympiad [Grade3]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 9 | 11 | 31 | 21 | 32 | 31 | 232 | 41 | 3 |
| 2 | 11 | 12 | 21 | 22 | 49 | 32 | 864 | 42 | ② |
| 3 | 18 | 13 | 15 | 23 | 51 | 33 | 12 | 43 | 12 |
| 4 | 27 | 14 | 14 | 24 | 20 | 34 | 3 | 44 | ① |
| 5 | 18 | 15 | 22 | 25 | 28 | 35 | 23 | 45 | 13 |
| 6 | 21 | 16 | 13 | 26 | 3 | 36 | 17 | 46 | 16 |
| 7 | 11 | 17 | 50 | 27 | 4 | 37 | 8 | 47 | 10 |
| 8 | 13 | 18 | 228 | 28 | 4 | 38 | 15 | 48 | ④ |
| 9 | 16 | 19 | 129 | 29 | 44 | 39 | 4 | 49 | 7 |
| 10 | 15 | 20 | 728 | 30 | 26 | 40 | 9 | 50 | 14 |

【Sol】

41. The answer is 3.



43. In order to fully fill C, we need four times of the full amount of water in B which each requires three times of the full amount of water in A.

So the answer is $3 \times 4 = 12$ (times).

44. The total shaded area in the example is 14.

Each figure is shaded as follows:

① 14 ② 16 ③ 13 ④ 13

45. ● : 1, — : 5

46. The relationship between A, B, and C is

$$2A + B = C.$$

So the missing number is 16.

47. Cubes on the bottom level: 6

Cubes on the 2nd level: 3

Cubes on the 3rd level: 1

So there are 10 cubes total.

48. When a mirror is placed

at ①: 1 1 0 1 1

at ②: 1 1 0 1 0 1 0 1 1

at ③: 1 1 0 1 0 0 1 0 1 1

at ④: 1 1 0 1 0 0 0 1 0 1 1

49. Step 1: $3 - 1 = 2$

Step 2: $(1 + 5) - 3 = 3$

Step 3: $(3 + 7) - (1 + 5) = 4$

Step 4: $(1 + 5 + 9) - (3 + 7) = 5$

Step 5: $(3 + 7 + 11) - (1 + 5 + 9) = 6$

Step 6: $(1 + 5 + 9 + 13) - (3 + 7 + 11) = 7$

50. $2 \times 4 = 8 \times 1$, $4 \times 4 = 8 \times 2$, $2 \times A = 8 \times 3$, $B \times 16 = 8 \times 4$

$A = 12$, $B = 2$

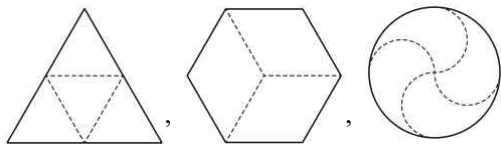
$\therefore 12 + 2 = 14$

2020 Eye Level MATH Olympiad [Grade4]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 17 | 11 | 31 | 21 | 14 | 31 | 832 | 41 | 3 |
| 2 | 28 | 12 | 36 | 22 | 13 | 32 | 22 | 42 | ① |
| 3 | 17 | 13 | 38 | 23 | 37 | 33 | 26 | 43 | ④ |
| 4 | 17 | 14 | 60 | 24 | 2 | 34 | 73 | 44 | 15 |
| 5 | 15 | 15 | 63 | 25 | 4 | 35 | 6 | 45 | 2 |
| 6 | 31 | 16 | 272 | 26 | 1 | 36 | 95 | 46 | 319 |
| 7 | 78 | 17 | 151 | 27 | 222 | 37 | 125 | 47 | 34 |
| 8 | 119 | 18 | 120 | 28 | 691 | 38 | 10 | 48 | 1 |
| 9 | 173 | 19 | 767 | 29 | 5 | 39 | 4 | 49 | 15 |
| 10 | 516 | 20 | 21 | 30 | 13 | 40 | 80 | 50 | 10 |

【Sol】

41. The answer is 3.



44. The following shows the complete set of Saturdays of this month.

| Sun | Mon | Tue | Wed | Thur | Fri | Sat |
|-----|-----|-----|-----|------|-----|-----|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | | | | | 15 |
| | | | | | | 22 |
| | | | | | | 29 |

Among 1, 8, 15, 22, and 29, the number that has a remainder of 0 when divided by 5 is 15.

45. The rule is $C=3A-B$.

$2 \times 3 - 3 = 3$ (Yes)

$4 \times 3 - 1 = 11$ (No)

$7 \times 3 - 8 = 13$ (No)

$8 \times 3 - 6 = 18$ (Yes)

The answer is 2.

46. The greatest is 421 and the smallest is 102, so the difference is 319.

47. Painted faces on the 1st level:

$5+3+3+3+5=19$

Painted faces on the 2nd level:

$4+2+4=10$

Painted faces on the 3rd level: 5

Therefore, the total is 34

48. When you attempt to multiply 7 by itself multiple times, the digits in the ones place are as below:

| | | | | | | |
|----------------------------|---|---|---|---|---|-----|
| Number of times multiplied | 1 | 2 | 3 | 4 | 5 | ... |
| Number in the one place | 7 | 9 | 3 | 1 | 7 | ... |

As shown above, the numbers 7, 9, 3, and 1 are being repeated in the ones place. 40 is one of the multiples of 4, so 1 would be in the ones place of the product you will get when you multiply 7 by itself 40 times.

49. $\diamond: 7$, $\bullet: 8$

$\therefore 7+8=15$

50. 11, 22, 101, 121, 202, 212, 1221, 2112, 12021, 21012

2020 Eye Level MATH Olympiad [Grade5]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 16 | 11 | 62 | 21 | 14 | 31 | 27 | 41 | ② |
| 2 | 15 | 12 | 25 | 22 | 4 | 32 | 9 | 42 | ③ |
| 3 | 29 | 13 | 86 | 23 | 1 | 33 | 9 | 43 | 5 |
| 4 | 49 | 14 | 729 | 24 | 4 | 34 | 6 | 44 | 51 |
| 5 | 37 | 15 | 245 | 25 | 13 | 35 | 25 | 45 | ④ |
| 6 | 123 | 16 | 377 | 26 | 1 | 36 | 10 | 46 | 13 |
| 7 | 7 | 17 | 80 | 27 | 7 | 37 | 5 | 47 | 12 |
| 8 | 24 | 18 | 68 | 28 | 64 | 38 | 77 | 48 | 121 |
| 9 | 39 | 19 | 61 | 29 | 76 | 39 | 48 | 49 | 28 |
| 10 | 31 | 20 | 7 | 30 | 15 | 40 | 4 | 50 | 10 |

【Sol】

43. The two numbers ○ and ☆ of which the sum is 11 and the product is 24 are 8 and 3. The difference between the two is 5.

44. $\square A \rightarrow \bigcirc B : A \div 4 = B$

$\bigcirc B \rightarrow \diamond C : B + 3 = C$

Therefore, A=24, B=8, C=19

45. ① 1 ② 3 ③ 5 ④ 7

46.

| Sun | Mon | Tue | Wed | Thur | Fri | Sat |
|-----|-----|-----|-----|------|-----|-----|
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| | | | | | | |

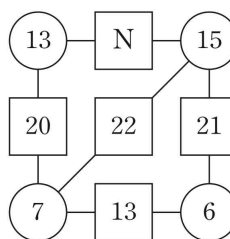
$$(\square - 7) + (\square + 7) + (\square + 1) + (\square - 1)$$

$$= 4 \times \square = 52$$

$$\therefore \square = 13$$

48. $1+3+9+27+81=121$

49.



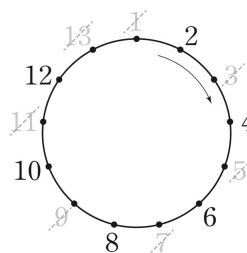
$$B + C + D = (22 + 13 + 21) \div 2 = 28$$

$$B = 28 - 21 = 7, \quad C = 28 - 22 = 6,$$

$$D = 28 - 13 = 15, \quad A = 20 - 7 = 13,$$

$$N = 13 + 15 = 28$$

50.



The numbers left after deleting the numbers 1, 3, 5, 7, 9, 11, 13 are 2, 4, 6, 8, 10, 12.

The 2 next to the erased number 13 is skipped and when 4, 8, and 12 are deleted, the remaining numbers are 2, 6, and 10.

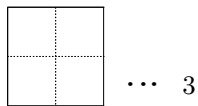
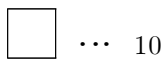
The 2 next to the erased number 12 is skipped, the 6 is deleted, the 10 next to the 6 is skipped, and the 2 is deleted. At this time, the last number remains: 10.

2020 Eye Level MATH Olympiad [Grade6]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 12 | 11 | 180 | 21 | 35 | 31 | 24 | 41 | 13 |
| 2 | 15 | 12 | 546 | 22 | 10 | 32 | 30 | 42 | ① |
| 3 | 72 | 13 | 240 | 23 | 37 | 33 | 760 | 43 | 225 |
| 4 | 56 | 14 | 13 | 24 | 13 | 34 | 75 | 44 | 60 |
| 5 | 74 | 15 | 13 | 25 | 4 | 35 | 60 | 45 | 22 |
| 6 | 13 | 16 | 10 | 26 | 406 | 36 | 13 | 46 | ③ |
| 7 | 618 | 17 | 5 | 27 | 16 | 37 | 3 | 47 | 68 |
| 8 | 3 | 18 | 9 | 28 | 7 | 38 | 19 | 48 | 44 |
| 9 | 15 | 19 | 14 | 29 | 86 | 39 | 174 | 49 | 8 |
| 10 | 9 | 20 | 5 | 30 | 54 | 40 | 10 | 50 | 24 |

【Sol】

41. The following are the two types of square we can draw.



So the total number of squares is 13.

43. $1 + 3 + 5 + \dots + 27 + 29 = 15 \times 15 = 225$

44. + and \times should be used for numbers that are as great as possible and - and should be used for numbers that are as small as possible. The greatest result we can come up with is as follows:

$9 - 5 + 8 \times 7 = 60, 9 \times 5 + 8 - 7 = 46,$

$9 + 5 \times 8 - 7 = 42$

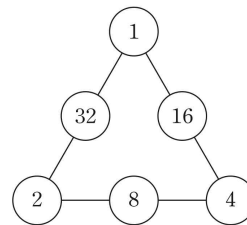
45. Even numbers have 0, 2, 4, 6 or 8 in the ones place. With these in the ones place, by placing:

(1) 0 in the tens place, respectively, we get 5 even numbers: 300, 302, 304, 306 and 308.

(2) 0 in the ones place, respectively, we get 18 even numbers: 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990.

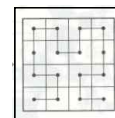
Therefore, answer is 22. (300 is in both lists)

47.



$\therefore 64 + 4 = 68$

48. The pattern is as follow:



| | | | | | | | | | | | |
|---|---|----|----|----|----|----|----|----|----|----|-----------|
| 6 | 7 | 10 | 11 | 22 | 23 | 26 | 27 | 38 | 39 | 42 | 43 |
| 5 | 8 | 9 | 12 | 21 | 24 | 25 | 28 | 37 | 40 | 41 | 44 |
| 4 | 3 | 14 | 13 | 20 | 19 | 30 | 29 | 36 | 35 | 46 | 45 |
| 1 | 2 | 15 | 16 | 17 | 18 | 31 | 32 | 33 | 34 | 47 | 48 |

49.

| | | | | | | | | |
|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |

50. $4 \times 3 \times 2 \times 1 \times 1 = 24$

2020 Eye Level MATH Olympiad [Grade7]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 5 | 11 | 2 | 21 | 28 | 31 | 36 | 41 | 17 |
| 2 | 23 | 12 | 7 | 22 | 326 | 32 | 960 | 42 | 27 |
| 3 | 1 | 13 | 16 | 23 | 838 | 33 | 12 | 43 | 3 |
| 4 | 31 | 14 | 11 | 24 | 702 | 34 | 17 | 44 | 6 |
| 5 | 15 | 15 | 13 | 25 | 31 | 35 | 27 | 45 | 518 |
| 6 | 19 | 16 | 4 | 26 | 8 | 36 | 2 | 46 | 23 |
| 7 | 13 | 17 | 11 | 27 | 218 | 37 | 30 | 47 | 65 |
| 8 | 5 | 18 | 17 | 28 | 225 | 38 | 216 | 48 | 15 |
| 9 | 7 | 19 | 13 | 29 | 571 | 39 | 8 | 49 | 532 |
| 10 | 1 | 20 | 8 | 30 | 15 | 40 | 24 | 50 | 329 |

[Sol]

41. $3 \times 3 + 2 \times 4 = 9 + 8 = 17$

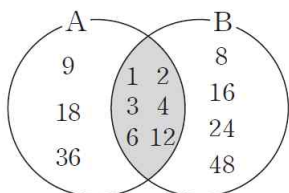
42. $9 \div 2 = 4R1$, $17 \div 3 = 5R2$, $15 \div 4 = 3R3$

$A \div 5 = 4R4$, $23 \div 6 = BR5$

$\therefore A=24$, $B=3$

43. Blue: 5, Green: 1, Purple: 4, Red: not 2

44.



The positive divisors of 36:

1, 2, 3, 4, 6, 9, 12, 18, 36

The positive divisors of 48:

1, 2, 3, 4, 6, 8, 12, 16, 24, 48

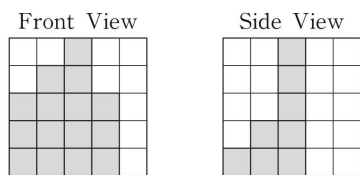
The numbers that go in the shaded areas are

1, 2, 3, 4, 6 and 12.

Total number is 6.

45. + and \times should be used for numbers that are as great as possible and - and \div should be used for numbers that are as small as possible. The greatest result we can come up with is as follows: $32 \times 16 + 8 - 4 \div 2 = 518$

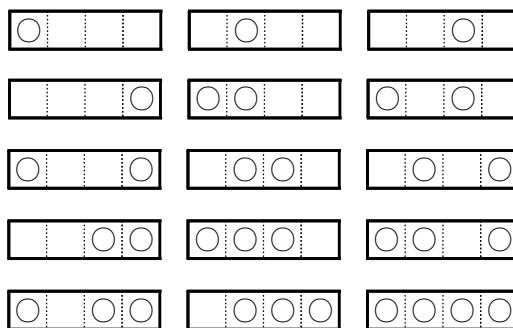
46.



$(3 + 4 + 5 + 3) + (1 + 2 + 5) = 23$

47. $A=5$, $B=10$

48.



49.

$$\begin{array}{r} 75 \\ 5 \overline{) 378} \\ \underline{35} \\ 28 \\ \underline{25} \\ 3 \end{array}$$

$A \times 7 = BA$

If $A=2$, then $2 \times 7 = 14$ (\times)

If $A=3$, then $3 \times 7 = 21$ (\times)

If $A=4$, then $4 \times 7 = 28$ (\times)

If $A=5$, then $5 \times 7 = 35$ (o)

So $B=3$.

$7-A=C$, $7-5-C \therefore C=2$

From the first line of the division, $A \times 7 = BA$.

This is only possible when $A=5$, and so $B=3$.

We can also know that $B7-BA=C$, and thus $C=2$.

50. Start with the largest prime numbers.

7 is multiple in $63=7\times 9$ and $84=7\times 12$, so we know where the 7 should be.

5 is multiple in $80=5\times 2\times 8$ and $180=5\times 4\times 9$, so we know where the 5 should be.

Next, note that $180=9\times 5\times 4$, and considering $63=7\times 9$, we know that $C=9$.

From this foundation, the remaining numbers can be easily identified.

| | | | | | | | | |
|----|----|----|-----|----|----|----|---|-----|
| | 8 | 1 | 24 | | 3 | 8 | 1 | 24 |
| | 2 | 7 | 84 | | 6 | 2 | 7 | 84 |
| | 5 | 9 | 180 | | 4 | 5 | 9 | 180 |
| 72 | 80 | 63 | | 72 | 80 | 63 | | |

$\therefore A=3, B=2, C=9$

2020 Eye Level MATH Olympiad [Grade8]

| No. | Answer | No. | Answer | No. | Answer | No. | Answer | No. | Answer |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 1 | 3 | 11 | 68 | 21 | 115 | 31 | 2 | 41 | 955 |
| 2 | 13 | 12 | 615 | 22 | 27 | 32 | 820 | 42 | 750 |
| 3 | 5 | 13 | 44 | 23 | 2 | 33 | 24 | 43 | 18 |
| 4 | 3 | 14 | 324 | 24 | 3 | 34 | 8 | 44 | 3 |
| 5 | 17 | 15 | 674 | 25 | 7 | 35 | 21 | 45 | ① |
| 6 | 1 | 16 | 11 | 26 | 79 | 36 | 300 | 46 | 3 |
| 7 | 7 | 17 | 486 | 27 | 21 | 37 | 6 | 47 | 5 |
| 8 | 4 | 18 | 148 | 28 | 23 | 38 | 600 | 48 | 33 |
| 9 | 41 | 19 | 110 | 29 | 13 | 39 | 225 | 49 | 32 |
| 10 | 61 | 20 | 113 | 30 | 331 | 40 | 423 | 50 | 115 |

【Sol】

41. $91 + 92 + 93 + 94 + \dots + 99 + 100$
 $= 191 \times 5 = 955$

42. The perimeter of the building is calculated as follows:

$$2 \times (11 + 8 + 6) = 50(\text{cm})$$

So the perimeter is $50 \times 15 = 750(\text{m})$.

43. $10 = 5 + 4 + 1 = 5 + 3 + 2 = 4 + 4 + 2 = 4 + 3 + 3$

So, ABC is 18 as follows:

541, 514, 451, 415, 154, 145,

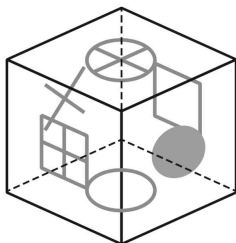
532, 523, 352, 325, 253, 235

442, 424, 244,

433, 343, 334

44. 12345, 21345, 34521

45. Below is how all the six faces of the cube appear.



46. Statements 2, 5, 6 are true.

47. If 4 is included and 2 and 6 are not included:

$$1 \times 3 \times 4 = 12, \quad 3 \times 4 \times 5 = 60$$

If 2 and 6 are included and 4 is not included:

$$1 \times 2 \times 6 = 12, \quad 2 \times 3 \times 6 = 36, \quad 2 \times 5 \times 6 = 60$$

48. (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, 33, 34, 35, 36)

| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| (1) | 1 | 2 | 4 | 7 | 11 | 16 | 22 | 29 |
| (2) | 3 | 5 | 8 | 12 | 17 | 23 | 30 | |
| (3) | 6 | 9 | 13 | 18 | 24 | 31 | | |
| (4) | 10 | 14 | 19 | 25 | 32 | | | |
| (5) | 15 | 20 | 26 | 33 | | | | |
| (6) | 21 | 27 | 34 | | | | | |
| (7) | 28 | 35 | | | | | | |
| (8) | 36 | | | | | | | |

49.

$$\begin{array}{r}
 132 \\
 32 \overline{) 4224} \\
 \underline{32} \\
 102 \\
 \underline{96} \\
 64 \\
 \underline{64} \\
 0
 \end{array}$$

$$AB \times 1 = AB < 4B \rightarrow A < 4$$

$$AB \times B = \square 4 < 100$$

If $B=8$, then $AB \times B > 100$ (×)

So $B=2$.

If $A=1$, then $42 - 12 \times 1 = 30 > 12$ (×)

If $A=2$, then $202-22 \times 2=158 > 22$ (\times)

So $A=3$.

50. Let ABC be the three-digit number with the difference between the neighboring digits being 1 or 2.

$B=0$: $A=1$ or 2 , and $C=1$ or 2 , so $2 \times 2=4$.

$B=1$: $A=2$ or 3 , and $C=0$ or 2 or 3 , so $2 \times 3=6$.

$B=2$: Since $A=1, 3, 4$, and $C=0, 1, 3, 4$,
so $3 \times 4=12$.

$B=3$: $A=1, 2, 4, 5$ and $C=1, 2, 4, 5$, so $4 \times 4=16$.

$B=4, 5, 6, 7$: As in the case of $B=3$, so 16 .

$B=8$: $A=6, 7, 9$, and $C=6, 7, 9$, so $3 \times 3=9$

$B=9$: $A=7, 8$, and $C=7, 8$, so $2 \times 2=4$

So total $4+6+12+5 \times 16+9+4=115$.