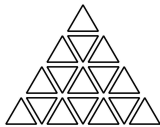


2024 Eye Level MATH Olympiad [Grade2]

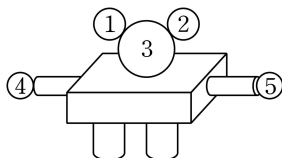
No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	Ⓒ	11	Ⓓ	21	Ⓓ	31	16	41	16
2	Ⓓ	12	Ⓑ	22	Ⓒ	32	24	42	6
3	Ⓒ	13	Ⓑ	23	Ⓓ	33	3	43	4
4	Ⓑ	14	Ⓒ	24	Ⓒ	34	9	44	15
5	Ⓔ	15	Ⓐ	25	Ⓐ	35	15	45	808
6	Ⓑ	16	Ⓐ	26	Ⓔ	36	14	46	Ⓑ
7	Ⓐ	17	Ⓔ	27	Ⓑ	37	21	47	Ⓒ
8	Ⓓ	18	Ⓔ	28	Ⓐ	38	17	48	Ⓓ
9	Ⓓ	19	Ⓒ	29	Ⓔ	39	114	49	Ⓒ
10	Ⓔ	20	Ⓒ	30	Ⓒ	40	40	50	Ⓒ

[Sol]

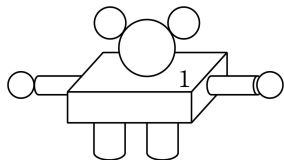
41.



42.



ball-shaped figures 5



box-shaped figures 1

$$\therefore 5 + 1 = 6$$

43. $\Rightarrow$ 1, $\Rightarrow$ 2,

$\Rightarrow$ 3, $\Rightarrow$ 5,

$\Rightarrow$ 6,

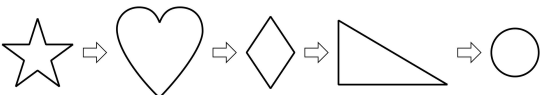
$\Rightarrow$ 7,

$\Rightarrow$ 8

44.

	1		2	
3	4	5	6	7
	8		9	
10	11		12	13
	14		15	

46.



49. Ⓐ Compared to (4), there are two numbers that are not the same.

Ⓑ Compared to (1) and (3) there are two numbers that are not the same.

Ⓓ Compared to (3), there are two numbers that are not the same.

50. The figure appears repeatedly in circles, triangles and squares.

Follow the rules in 1 black,
2 white, 3 black, 4 white, 5 black,
6 white, ...

2024 Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	Ⓒ	11	Ⓓ	21	Ⓒ	31	23	41	24
2	Ⓔ	12	Ⓑ	22	Ⓔ	32	8	42	16
3	Ⓐ	13	Ⓒ	23	Ⓑ	33	63	43	38
4	Ⓓ	14	Ⓐ	24	Ⓓ	34	213	44	14
5	Ⓐ	15	Ⓔ	25	Ⓐ	35	421 or 694	45	15
6	Ⓑ	16	Ⓒ	26	Ⓒ	36	51	46	Ⓓ
7	Ⓐ	17	Ⓑ	27	Ⓐ	37	749	47	Ⓑ
8	Ⓓ	18	Ⓒ	28	Ⓓ	38	128	48	Ⓒ
9	Ⓔ	19	Ⓐ	29	Ⓔ	39	252	49	Ⓒ
10	Ⓒ	20	Ⓔ	30	Ⓑ	40	900	50	Ⓐ

【Sol】

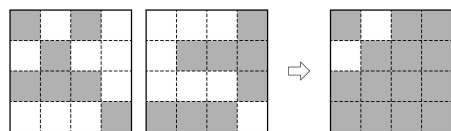
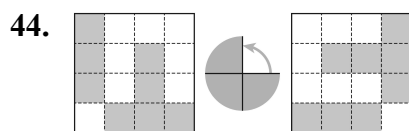
41. $A = 4, B = 6$

$\therefore A \times B = 4 \times 6 = 24$

42. 9 blocks were used on the first floor, 6 blocks on the second floor, and 1 block on the third floor.

$\therefore 9 + 6 + 1 = 16$

43. $81 - 25 - 18 = 38$



45. $\Rightarrow 1$, $\Rightarrow 2$, $\Rightarrow 3$,
 $\Rightarrow 5$, $\Rightarrow 6$,
 $\Rightarrow 7$,
 $\Rightarrow 8$,
 $\Rightarrow 9$,

$\Rightarrow 10$,

$\Rightarrow 12$,

$\Rightarrow 13$,

$\Rightarrow 14$,

$\Rightarrow 15$

$\therefore 4 + 11 = 15$

46. $A = 25, B = 49$

$\therefore A + B = 25 + 49 = 74$

49. Angela : cat, Brody : dog,

Carina : goldfish, Dylan : parrot

50. The figure appears repeatedly in squares, circles and triangles.

The size of the figure appears repeatedly, large and small.

Follow the rules in 1 black,

1 white, 1 black, 2 white, 1 black,

3 white, 1 black, 4 white, 1 black,

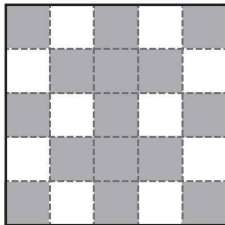
...

2024 Eye Level MATH Olympiad [Grade4]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	Ⓒ	11	Ⓒ	21	Ⓓ	31	35	41	10
2	Ⓔ	12	Ⓓ	22	Ⓔ	32	32	42	16
3	Ⓑ	13	Ⓒ	23	Ⓐ	33	132	43	300
4	Ⓒ	14	Ⓔ	24	Ⓑ	34	637	44	160
5	Ⓑ	15	Ⓐ	25	Ⓓ	35	6	45	12
6	Ⓐ	16	Ⓓ	26	Ⓐ	36	16	46	25
7	Ⓓ	17	Ⓐ	27	Ⓔ	37	9	47	74
8	Ⓒ	18	Ⓓ	28	Ⓒ	38	14	48	Ⓒ
9	Ⓓ	19	Ⓒ	29	Ⓓ	39	38	49	Ⓐ
10	Ⓔ	20	Ⓑ	30	Ⓐ	40	8	50	Ⓒ

[Sol]

41.



42. The relationship between A, B, and C is $A \times B + 1 = C$.

So the missing number is 16.

43. 2 apples = 360 g = 3 tangerines

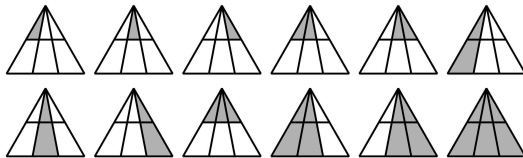
1 tangerine = 120 g

5 tangerines = 600 g = 2 pears

1 pear = 300 g

44. $(180 + 180 + 60 + 60) \div 3 = 160$

45.



46. $7 = 3 + 3 + 1$

$8 = 6 + 1 + 1$

$9 = 3 + 3 + 3$

$10 = 6 + 3 + 1$

$12 = 6 + 3 + 3$

$13 = 6 + 6 + 1$

$15 = 6 + 6 + 3$

$\therefore 11 + 14 = 25$

47. $81 - 18 = 63$

$81 - 25 - 18 = 38$

$81 - 2 + 5 - 18 = 66$

$81 - 2 + 8 + 5 - 18 = 74$

48. Rotating the figure Ⓐ



Reflecting the figure Ⓓ



50. The given figure used 15 blocks.

Ⓐ, Ⓑ, Ⓓ 15 blocks

Ⓒ 16 blocks

2024 Eye Level MATH Olympiad [Grade5]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	Ⓒ	11	Ⓑ	21	Ⓒ	31	442	41	25
2	Ⓑ	12	Ⓔ	22	Ⓔ	32	14	42	12
3	Ⓔ	13	Ⓒ	23	Ⓑ	33	16	43	35
4	Ⓓ	14	Ⓔ	24	Ⓒ	34	13	44	6
5	Ⓑ	15	Ⓓ	25	Ⓔ	35	20	45	15
6	Ⓐ	16	Ⓐ	26	Ⓐ	36	7	46	2
7	Ⓔ	17	Ⓒ	27	Ⓒ	37	245	47	10
8	Ⓓ	18	Ⓔ	28	Ⓑ	38	169	48	Ⓑ
9	Ⓑ	19	Ⓐ	29	Ⓓ	39	66	49	Ⓒ
10	Ⓓ	20	Ⓑ	30	Ⓐ	40	34	50	Ⓒ

【Sol】

41. 2-digit numbers : 11, 33, 55, 77, 99

3-digit numbers : $1\square 1$, $3\square 3$

Each $\square$ can contain a number from 0 to 9.

$$5 + 10 \times 2 = 25$$

42. All possible 2-digit numbers that can be made with these number cards are as follows.

12, 13, 14, 21, 23, 24, 31, 32, 34, 41, 42, 43

43. $c + c + c = 18$, $c = 6$

$$b + b + c = 22, b = 8$$

$$a + b + b = 21, a = 5$$

$$\blacktriangle = a + b + c = 19, \bullet = a + a + c = 16$$

$$\therefore \blacktriangle + \bullet = 35$$

44. 1 black stone : 1, white stone : 0

2 black stone : 1, white stones : 3

3 black stones : $1 + 5 = 6$,
white stones : 3

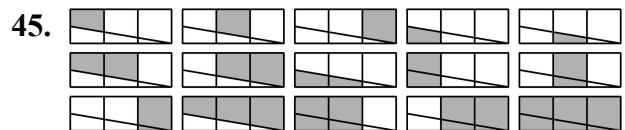
4 black stones : 6,
white stones : $3 + 7 = 10$

5 black stones : $6 + 9 = 15$,
white stones : 10

6 black stones : 15,

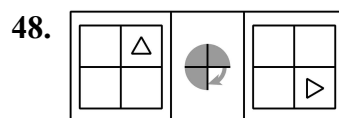
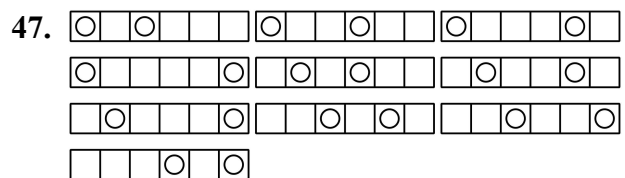
white stones : $10 + 11 = 21$

$$21 - 15 = 6$$



46. $\square = 8$, $\triangle = 6$ or $\square = 6$, $\triangle = 8$

$$8 - 6 = 2$$



49. May has 31 days.

Sun	Mon	Tue	Wed	Thu	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	24	25
26	27	28	29	30	31	

50. $D > C > A > B$

2024 Eye Level MATH Olympiad [Grade6]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	(A)	11	(C)	21	(C)	31	12	41	7
2	(D)	12	(A)	22	(E)	32	19	42	18
3	(E)	13	(D)	23	(A)	33	33	43	9
4	(B)	14	(A)	24	(D)	34	28	44	8
5	(E)	15	(E)	25	(C)	35	780	45	15
6	(C)	16	(B)	26	(B)	36	15	46	15
7	(A)	17	(B)	27	(D)	37	476	47	12
8	(C)	18	(C)	28	(E)	38	18	48	(A)
9	(D)	19	(D)	29	(C)	39	650	49	(C)
10	(B)	20	(D)	30	(B)	40	6	50	(C)

【Sol】

41. $18 + 14 - 25 = 7(m)$

42. Number of cases where three digits are created with only 1, 2, and 3 : 6

Number of cases with $\square 0 \square : 6$

Number of cases with $\square \square 0 : 6$

$6 + 6 + 6 = 18$

43.

5 points	3 points	2 points	Total points
3	0	0	15
2	1	0	13
2	0	1	12
1	2	0	11
1	1	1	10
1	0	2	9
0	3	0	9
0	2	1	8
0	1	2	7
0	0	3	6

44. The following is one of several methods.

$123456 \Rightarrow 213456 \Rightarrow 231456$

$\Rightarrow 234156 \Rightarrow 234516 \Rightarrow 234561$

$\Rightarrow 243561 \Rightarrow 243651 \Rightarrow 246351$

45.

$$\begin{array}{r} \boxed{8} \boxed{8} \\ + \boxed{6} \boxed{8} \\ \hline \boxed{1} \boxed{5} \boxed{6} \end{array}$$

$A = 8, B = 6, C = 1$
 $A + B + C = 15$

46. $144 \div 12 = 12$

$A \times C = 12, B \times D = 12$

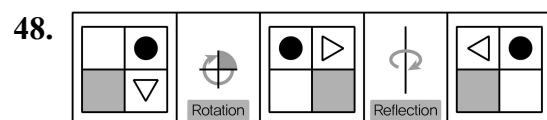
A, B, C, D and 12 are different numbers.

$12 = 2 \times 6$ or $12 = 3 \times 4$

$\therefore 2 + 3 + 4 + 6 = 15$

47.

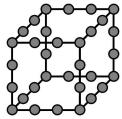
	Frankie	Gemma	Hudson
last	8	8	8
second	8	10	6
first	2	10	12



49.

Start	9	58	34	51	(A)
	24	30	15	35	(B)
	18	65	23	44	(C)
	40	27	13	50	(D)

50.



$\therefore 32$

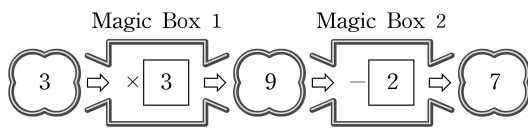
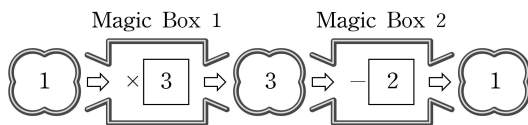


2024 Eye Level MATH Olympiad [Grade7]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	(B)	11	(D)	21	(C)	31	323	41	15
2	(E)	12	(B)	22	(C)	32	104	42	5
3	(D)	13	(A)	23	(B)	33	47	43	57
4	(C)	14	(E)	24	(B)	34	29	44	45
5	(B)	15	(D)	25	(A)	35	42	45	11
6	(C)	16	(B)	26	(C)	36	665	46	7
7	(D)	17	(C)	27	(E)	37	28	47	8
8	(C)	18	(B)	28	(A)	38	612	48	(A)
9	(B)	19	(D)	29	(E)	39	268	49	(B)
10	(A)	20	(A)	30	(A)	40	119	50	(D)

[Sol]

41.



$$43 + 2 = 45, 45 \div 3 = 15$$

42.

times	3L	5L	8L
1	0	5	0
	large container $\Rightarrow$ 5L beaker		
2	0	0	5
	5L beaker $\Rightarrow$ 8L beaker		
3	0	5	5
	large container $\Rightarrow$ 5L beaker		
4	3	2	5
	5L beaker $\Rightarrow$ 3L beaker		
5	3	0	7
	5L beaker $\Rightarrow$ 8L beaker		

43. When Mario looks at the clock,
the time that the clock originally



The time when he arrives at the
restaurant is 11:03.

There are 57 minutes left until 12
o'clock.

44. top view 9

side view 8, $8 \times 2 = 16$

front view 10, $10 \times 2 = 20$

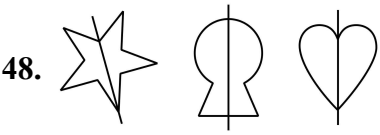
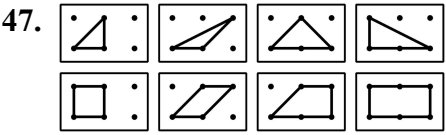
$$9 + 16 + 20 = 45$$

45.

quarter	dimes	nickels	Total (cent)
1	2	2	55
1	2	1	50
1	2	0	45
1	1	2	45
1	1	1	40
1	1	0	35
1	0	2	35
1	0	1	30
1	0	0	25
0	2	2	30
0	2	1	25
0	2	0	20
0	1	2	20
0	1	1	15
0	1	0	10
0	0	2	10
0	0	1	5

46.

ducks	pigs	number of legs
$\vdots$	$\vdots$	$\vdots$
10	10	60
11	9	58
12	8	56
13	7	54
$\vdots$	$\vdots$	$\vdots$



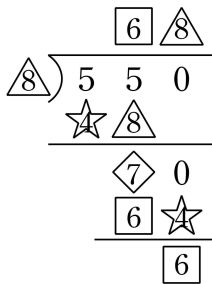
49. The two angles are 45° and 60° ,
 so the other angle is 75° .
 The angles of an isosceles
 triangle with the same length for
 two sides cannot all be different.

2024 Eye Level MATH Olympiad [Grade8]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	(B)	11	(B)	21	(C)	31	406	41	25
2	(A)	12	(D)	22	(A)	32	24	42	92
3	(C)	13	(E)	23	(D)	33	725	43	31
4	(D)	14	(B)	24	(A)	34	167	44	140
5	(C)	15	(C)	25	(C)	35	11	45	51
6	(C)	16	(B)	26	(B)	36	12	46	29
7	(B)	17	(D)	27	(A)	37	175	47	31
8	(E)	18	(B)	28	(B)	38	15	48	(C)
9	(A)	19	(E)	29	(C)	39	148	49	(B)
10	(D)	20	(C)	30	(E)	40	78	50	(C)

[Sol]

41.



$$\therefore 6 + 8 + 4 + 7 = 25$$

42. 1 5

2 $5 + (3 + 2 + 2) = 12$

3 $5 + 7 + (4 + 3 + 3) = 22$

4 $5 + 7 + 10 + (5 + 4 + 4) = 35$

:

7 $5 + 7 + 10 + 13 + 16 + 19 + 22 = 92$

43. league games : $6 \times 4 = 24$

tournament games : $4 + 2 + 1 = 7$

$$\therefore 24 + 7 = 31$$

44. 1, 10, 12, 13, ..., 19 : 10 times

11 : 2 times

21, 31, ..., 91 : 8 times

101 : 2 times

100, 102, ..., 109 : 9 times

111 : 3 times

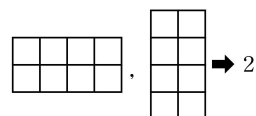
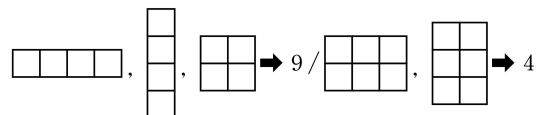
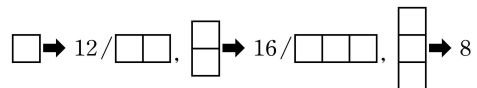
110, 112, 113, ..., 119 : 18 times

121, 131, 141, ..., 191 : 16 times

120, 122, 123, ..., 199 : 72 times

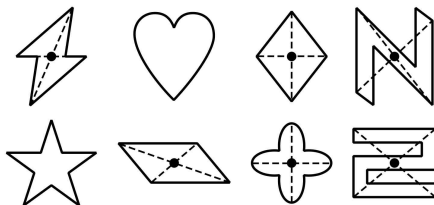
$$\therefore 10 + 2 + 8 + 2 + 9 + 3 + 18 + 16 + 72 = 140$$

45.



46. $4 \div 2 + 9 \times 3 = 29$

48.

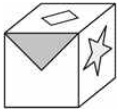


49.

Number of skips	Numeral location
1	4
2	7
3	10
4	13
5	16
6	3
7	6
8	9
9	12
10	15
11	2
12	5
13	8
14	11
15	14

50.  and  face each other.

© should be the following figure.



2024 Eye Level MATH Olympiad [Grade9]

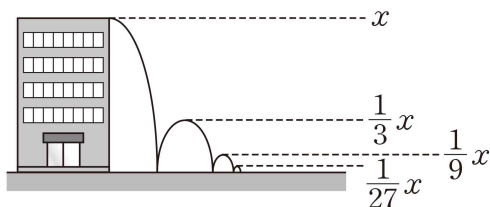
No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	Ⓓ	11	Ⓐ	21	Ⓔ	31	217	41	12
2	Ⓒ	12	Ⓒ	22	Ⓓ	32	594	42	54
3	Ⓔ	13	Ⓑ	23	Ⓒ	33	720	43	8
4	Ⓑ	14	Ⓐ	24	Ⓑ	34	40	44	50
5	Ⓐ	15	Ⓔ	25	Ⓐ	35	426	45	16
6	Ⓓ	16	Ⓓ	26	Ⓓ	36	21	46	15
7	Ⓑ	17	Ⓔ	27	Ⓐ	37	64	47	158
8	Ⓔ	18	Ⓒ	28	Ⓒ	38	314	48	Ⓓ
9	Ⓒ	19	Ⓑ	29	Ⓔ	39	115	49	Ⓐ
10	Ⓓ	20	Ⓐ	30	Ⓓ	40	137	50	Ⓑ

[Sol]

41. $\left(1 - \frac{2}{5}\right) \times \left(1 - \frac{3}{4}\right) = \frac{3}{20}$

$\therefore 1.8 \div \frac{3}{20} = 12(\text{km})$

42.



$$x + \frac{2}{3}x + \frac{2}{9}x + \frac{2}{27}x = 106$$

$$\frac{53}{27}x = 106$$

$\therefore x = 54$

43. The number of steps Helena or Joy can take when she wins.

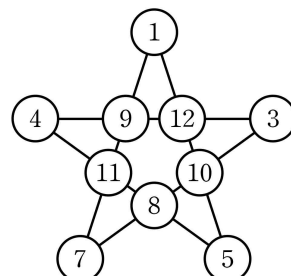
Helena		Joy	
scissors	2		1
paper	3		2
paper	3		2
paper	3		2
scissors	2		1
rock	1		3
paper	3		2
scissors	2		1
paper	3		2
paper	3		2

Only five of these can be added each that are not in the same row. The only time Helena went up 4 steps more than Joy was when Helena went up 12 steps and Joy went up 8 steps.

For example, there are cases like this.

Helena		Joy	
scissors	2	paper	
paper	3	rock	
paper	3	rock	
paper	3	rock	
scissors		rock	1
rock	1	scissors	
paper		scissors	2
scissors		rock	1
paper		scissors	2
paper		scissors	2

44.



$\therefore 8 + 9 + 10 + 11 + 12 = 50$

45. $36 \div 12$, $48 \div 12$, $84 \div 12$, $26 \div 13$,
 $28 \div 14$, $32 \div 16$, $48 \div 16$, $36 \div 18$,
 $63 \div 21$, $84 \div 21$, $46 \div 23$, $62 \div 31$,
 $64 \div 32$, $68 \div 34$, $82 \div 41$, $86 \div 43$

46.

			3				
	6					9	
	4		8	A			B
					6		
	4						

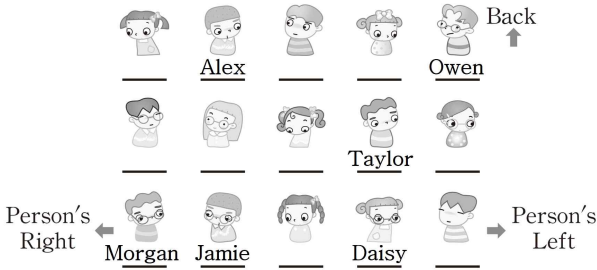
 or

			3				
	6					9	
	4		8	A			B
					6		
	4						

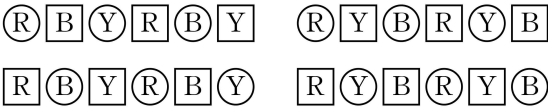
$A = 5$, $B = 3$
 $\therefore A \times B = 15$

47. Evan's marbles : x
 Felix's marbles : $x + 4$
 Grace's marbles : $x - 1$
 Chloe's remaining marbles : $x - 1$
 $x + (x - 1) = 77$
 $x = 39$
 Chloe's marbles at the beginning :
 $4x + 2 = 158$

48.



49. There are 4 cases where the red figure comes first, as follows.



There are 4 cases where the blue figure comes in the front, and 4 cases where the yellow figure comes in the front, so the number of all cases is 12.

50.

