
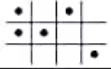


# 2012 EyeLevel MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	174	11	47	21	6R15	31	168	41	①
2	783	12	12	22	7R30	32	31,440	42	
3	4,050	13	21R3(=21.75)	23	18R51	33	16	43	13
4	5,088	14	27R2	24	15	34	13	44	
5	157,296	15	29R1(=29.5)	25	24	35	11, 5	45	21
6	667,625	16	10R7	26	11	36	44	46	C=A+B+2 or C is the sum of A, B, and 2.
7	5R4(=4.4)	17	15R1	27	$4\frac{5}{7}$	37	8, 33	47	8
8	7R4(=7.8)	18	16R4(=16.8)	28	$3\frac{4}{9}$	38	5, 200	48	★: 5, ●: 3
9	17	19	13R4	29	2.37	39	4	49	7
10	16	20	901R4(=901.5)	30	2.65	40	Lion	50	B: 2, D: 5 or B: 5, D: 2

**【Sol】**

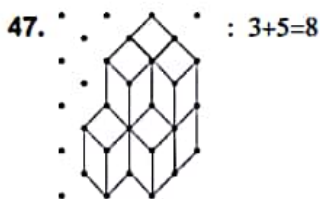
31.  $24 \times 7 = 168$   
 32.  $524 \times 60 = 31440$   
 33.  $32 \div 2 = 16$   
 34.  $91 \div 7 = 13$   
 35.  $82 \div 7 = 11R5$   
 36.  $396 \div 9 = 44$   
 37.  $345 \div 39 = 8R33$   
 38. 3L 500mL + 1L 700mL = 5L 200mL  
 39.  $(5 + \square) \times 2 = 18, \square = 4$   
 40. 24 is a multiple of 8.  
 24 is a factor of 48.  
 41. example : 7 ① 7 ② 8 ③ 6 ④ 8  
 43. Friday of August : 2, 9, 16, 23, 30  
 Friday of September : 6, 13, 20, 27

45. 

Figure Number	□	□	□	□	...	□
Number of ■	1+2=3	2+3=5	3+4=7	4+5=9	...	10+11=21

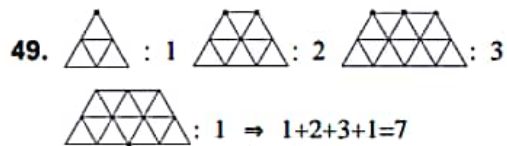
46. 

A		B				C	$\Rightarrow A+B+2=C$
3	+	2	+	2	=	7	
5	+	7	+	2	=	14	
6	+	8	+	2	=	16	
9	+	10	+	2	=	21	



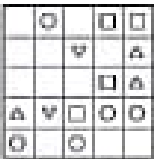
48.  $\star \times \bullet = 15$   
 $\Rightarrow (\star, \bullet) = (1, 15), (3, 5), (5, 3), (15, 1)$

$(\star, \bullet)$	(1, 15)	(3, 5)	(5, 3)	(15, 1)
$\star + \star + \bullet$	$1+1+15=17$	$3+3+5=11$	$5+5+3=13$	$15+15+1=31$



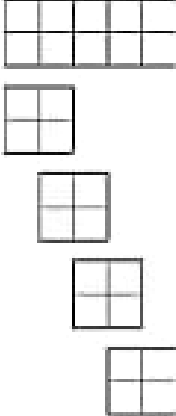
50.  $A \times 3 \times C = 30, A \times C = 10 \Rightarrow A = 10, C = 1$   
 ( $\because A$  has biggest value.)  
 $B \times 3 \times D = 30, B \times D = 10 \Rightarrow B = 2, D = 5$   
 or  $B = 5, D = 2$

## 2013 Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	273	11	21R2	21	15R24	31	224	41	Ⓐ
2	768	12	19R2(19.5)	22	23R14	32	11,782	42	Ⓐ
3	2,144	13	10R7	23	8R3	33	19	43	2
4	3,741	14	12R3(12.6)	24	22	34	12	44	28 <sup>th</sup>
5	18,639	15	11R5	25	31	35	4, 2	45	4
6	134,232	16	12R3(12.375)	26	0	36	131	46	21
7	12	17	12R6	27	$0\frac{10}{13}$	37	36	47	
8	14	18	182	28	$3\frac{3}{11}$	38	12, 740	48	36
9	18	19	115R4	29	9.55	39	7	49	6
10	12	20	862R4	30	11.86	40	3, 3	50	Ⓐ

**【Sol】**

31.  $56 \times 4 = 224$   
 32.  $274 \times 43 = 11,782$   
 33.  $57 + 3 = 19$   
 34.  $67 + 6 = 11R1 \Rightarrow 12$   
 35.  $38 + 9 = 4R2$   
 36.  $130 + 1 = 131$  or  $(520 \div 4) + 1 = 131$   
 37.  $764 \div 21 = 36R8 \Rightarrow 36$   
 38.  $27 \text{ kg } 400 \text{ g} - 14 \text{ kg } 700 \text{ g} = 12 \text{ kg } 740 \text{ g}$   
 39.  $\frac{28}{\square} = 4 \Rightarrow \square = 7$   
 40.  $18 = 2 \times 3 \times 3$   
 43. left : 4 blocks , right : 6 blocks  
 Therefore, 2 more blocks  
 44. Thursday is 7<sup>th</sup> , 14<sup>th</sup> , 21<sup>th</sup> , 28<sup>th</sup>  
 Therefore , the fourth Thursday is on the 28<sup>th</sup>

45.  : 4 groups of 4 squares

46.  $1^{\text{st}} : 1$   
 $2^{\text{nd}} : 1+2=3$   
 $3^{\text{rd}} : 1+2+3=6$   
 $\square\square\square$   
 $6^{\text{th}} : 1+2+3+4+5+6=21$


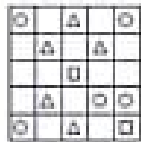
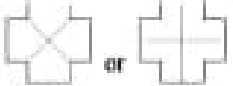
48. Make a table to find the answer.

Time(min)	40	80	120	160	200	240
Number of dolls	6	12	18	24	30	36

since 4 hours is the same as 240 minutes, the number of dolls is 36.

49. Even number can be made when the ones place is 2 or 6. Therefore 2-digit even numbers are 12, 52, 62, 16, 26, 56.

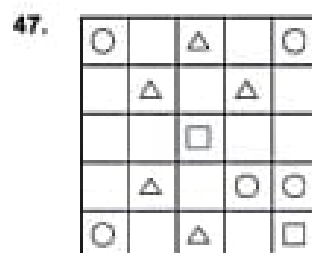
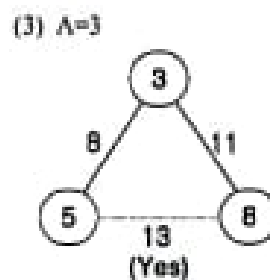
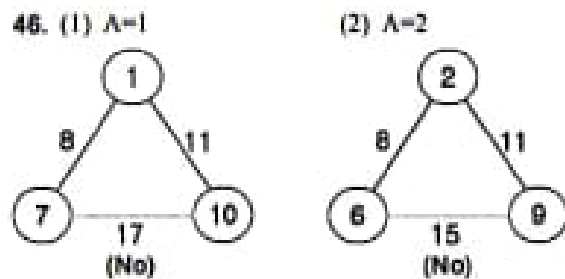
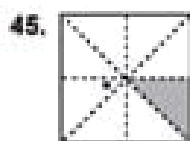
## 2014 Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	288	11	28R1	21	35R3	31	164	41	①
2	657	12	16R3	22	54R15	32	800	42	24
3	2,736	13	10R4	23	7R27	33	8, 3	43	①
4	3,783	14	11R6	24	26	34	4	44	41
5	15,136	15	18R3	25	36	35	12	45	
6	177,933	16	11R7	26	62	36	44	46	8
7	13	17	14R4	27	$9\frac{10}{13}$	37	8, 17		
8	13	18	137	28	$3\frac{3}{11}$	38	3	48	$C=A+A+B$ or $C=A+2+B$ or $C-B=A+2$
9	15	19	124R7	29	10.38	39	$\frac{3}{4}$ or 0.75	49	②
10	14	20	847R4	30	22.68	40	1.52	50	 The answer can be various.

**[Sol]**

- 31.  $41 \times 4 = 164$
- 32.  $25 \times 32 = 800$
- 33.  $43 - 5 = 8R3 \Rightarrow 8, 3$
- 34.  $28 - 7 = 4$
- 35.  $72 - 6 = 12$
- 36.  $396 \div 9 = 44$
- 37.  $185 \div 21 = 8R17 \Rightarrow 8, 17$
- 38.  $6 \div 4 = 8=3$
- 39.  $2 - 1\frac{1}{4} = \frac{3}{4}$  or 0.75  $\Rightarrow \frac{3}{4}$  or 0.75
- 40.  $3.44 - 1.92 = 1.52$

- 42.  $\$30 + 5(\text{boxes}) = \$6(\text{box})$   
 $\$144 + \$6(\text{box}) = 24(\text{boxes})$



## 2015 Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	9	11	12	21	25	31	204	41	15
2	12	12	28	22	41	32	875	42	4
3	12	13	18	23	53	33	2	43	3
4	23	14	16	24	64	34	36	44	5
5	22	15	16	25	81	35	4	45	7
6	15	16	15	26	7	36	250	46	2
7	8	17	21	27	1	37	8	47	①
8	24	18	236	28	6	38	350	48	10
9	17	19	132	29	37	39	11	49	④
10	12	20	470	30	53	40	4	50	6

**[Sol]**

31.  $34 \times 6 = 204$

32.  $35 \times 25 = 875$

33.  $18 \div 4 = 4R2$

34.  $72 \div 2 = 36$

35.  $12 \times 7 \div 8 = 84 \div 8 = 10R4$

36.  $999 \div 4 = 249R3$

37.  $229 \div 28 = 8R5$

38.  $1,250\text{mL} - 900\text{mL} = 350\text{mL}$

39.  $4\frac{1}{7} - 2\frac{4}{7} = 1\frac{4}{7}$

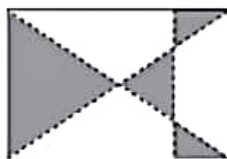
$\Rightarrow 7 + 4 = 11$

40.  $48 = 3 \times \square \times \square$   
 $\square \times \square = 16, \square = 4$

41.

Figure Number	①	②	③	④			
Number of squares	3	5	7	9	11	13	15

42.



46. ① 8      ② 9      ③ 7  
 ④ 9      ⑤ 7      ⑥ 10

48. 151    161    171    181    191  
 202    212    222    232    242

## 2016 Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	14	11	14	21	43	31	204	41	28
2	9	12	47	22	45	32	875	42	②
3	18	13	15	23	47	33	2	43	②
4	13	14	13	24	209	34	24	44	4
5	26	15	25	25	32	35	1	45	23
6	36	16	19	26	10	36	67	46	19
7	8	17	37	27	1	37	6	47	48
8	23	18	226	28	3	38	747	48	5
9	15	19	127	29	38	39	4	49	36
10	19	20	376	30	86	40	3	50	3

**[Sol]**

31.  $68 \times 3 = 204$

32.  $25 \times 35 = 875$

33.  $44 \div 7 = 6R2$

34.  $72 \div 3 = 24$

35.  $99 \div 7 = 14R1$

36.  $460 \div 7 = 67$

37.  $197 \div 29 = 6R23$

38.  $1,830 - 1,083 = 747$

39.  $6\frac{5}{9} + 3\frac{7}{9} = 10\frac{1}{3}$

$\Rightarrow 3 + 1 = 4$

40.  $27 = 3 \times 3 \times \square$

$27 = 9 \times \square, \square = 3$

41. Friday : 7, 14, 21, 28

42. **Example** has 7 colored squares.

- ① 8    ② 7    ③ 9    ④ 10

44. 4 shapes, A, B, E, and F have pieces of the same shape and length.

45. The three numbers in A, B, and C are placed under the following rule:

$2 \times 5 = 9 + 1$      $3 \times 6 = (1) + 1 \Rightarrow (1)$  is 17

$4 \times 6 = 23 + 1$      $(2) \times 8 = 47 + 1 \Rightarrow (2)$  is 6

Therefore the sum is  $17 + 6 = 23$ .

46. The equations that satisfy the multiplication are the following three:

$4 \times 9 = 36$      $6 \times 6 = 36$      $9 \times 4 = 36$

Therefore, numbers that can go in  $\odot$  are 4, 6, 9 and the sum is 19

47. By making 4 dolls in 15 minutes, he makes

$4 \times 4 = 16$  dolls in an hour (= 60 minutes).

Then he can make  $16 \times 3 = 48$  dolls in 3 hours.

48. The number you see in the mirror is 1000001.

Therefore, you have five 5's

49. You inspect the numbers by holding each digit in 'tens' position.

12 13 14 15 16 17 18 19 (8 numbers)

23 24 25 26 27 28 29 (7 numbers)

34 35 36 37 38 39 (6 numbers)

45 46 47 48 49 (5 numbers)

56 57 58 59 (4 numbers)

67 68 69 (3 numbers)

78 79 (2 numbers)

89 (1 number)

Therefore, the total is 36.

50. There are following 3 ways where the sum of the three numbers is 9:

$1+3+5$ ,  $2+2+5$ ,  $3+3+3$

2017  Eye Level MATH Olympiad [Grade3]

No.	Answer	No.	Answer	No.	Answer	No.	Answer	No.	Answer
1	15	11	17	21	63	31	204	41	3
2	9	12	23	22	50	32	324	42	15
3	27	13	12	23	44	33	4	43	6
4	28	14	18	24	9	34	105	44	3
5	27	15	15	25	17	35	12	45	8
6	30	16	18	26	16	36	3	46	2
7	16	17	26	27	3	37	9	47	3
8	13	18	375	28	5	38	20	48	24
9	17	19	103	29	35	39	79	49	3
10	21	20	138	30	18	40	120	50	4