Think Academy

Monthly Challenge

• March • Grade 2

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G2 Practice Problems

Numbers & Operations

1 Calculate:

(1) $8,421 + 7,469 =$ _____

(2) $9,063 + 3,002 =$ _____

(3) $4,204 + 5,979 =$ _____

(4) $4,200 + 2,838 =$ _____

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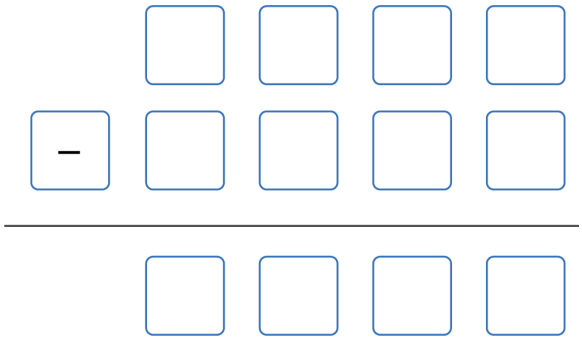
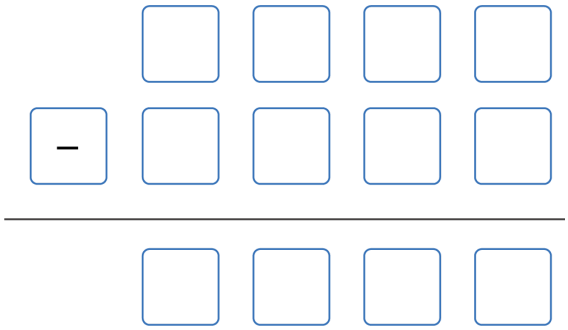
2 Solve the following problems using column subtraction.

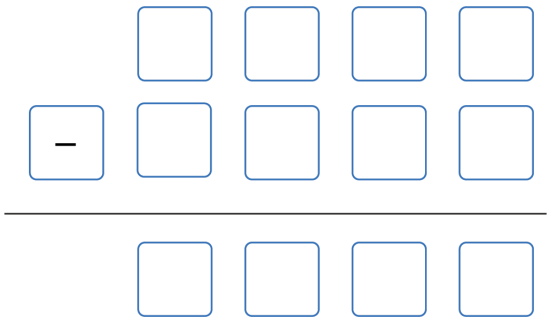
(1) $4,700 - 2,900 =$ _____



(2) $5,430 - 4,320$ _____



(3) $5,678 - 2,590$ _____



3 Calculate:

(1) $360 \div 6 + 195 =$ _____

(2) $326 - 267 + 737 =$ _____

(3) $369 \div (39 - 36) =$ _____

4 Calculate:

(1) $67 \times 5 + 15 \times 6 =$ _____

(2) $(235 + 465) \times 6 =$ _____

(3) $823 + 125 \times 4 =$ _____

5 Calculate:

(1) $112 \times 4 - 36 \div 6 =$ _____

(2) $29 \times 7 + 144 \div 9 =$ _____

Fun Math

1 Find the number each shape represents below! (The same shapes represent the same numbers, and different shapes represent different numbers.)

 $= 42$

 $= 58$

 = _____

 = _____

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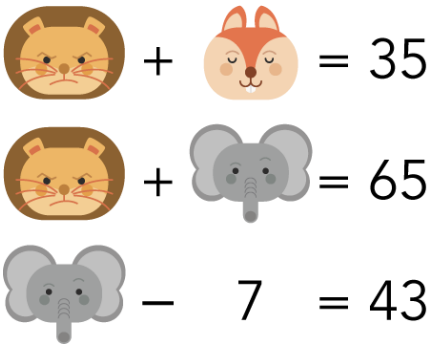
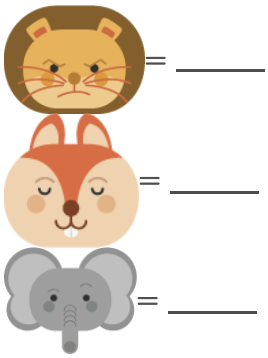
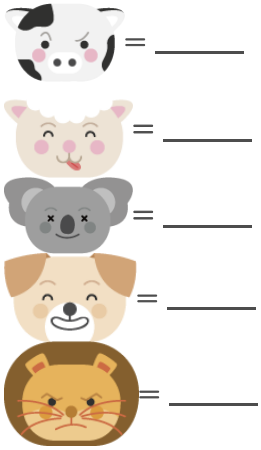
2 Find the number each shape represents below! (The same shapes represent the same numbers, and different shapes represent different numbers.)

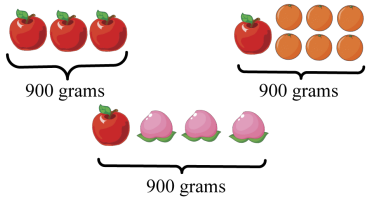


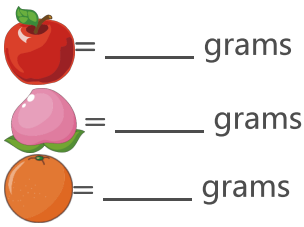


3 Find the number each animals represents below. (The same animal represents the same number, and different animals represent different numbers.)



4 Each pile of fruit below weighs 900 grams. Can you work out the weight of an apple, a peach, and an orange, respectively?





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5 Fill the numbers 1 to 6 exactly once in every row,column, and block.

5	1	6		3	4
2	4		6	1	5
3		5	4	6	1
1		4	5	2	3
4	3		1	5	6
6	5	1		4	2

6 Fill the numbers 1 to 6 exactly once in every row,column, and block.

6	3	4	1	5	2
	5	1	4	6	
3		2	5		6
4		5	2		1
5	2			1	4
1	4	6	3	2	5

7 Fill the numbers 1 to 6 exactly once in every row,column, and block.

	6	4	2	5	
1	2		3	6	4
5	3	1	4		6
2		6	1	3	5
4	5	3		1	2
	1	2	5	4	

8 Solve the Nonogram according to the instructions below.

(a) The numbers in the left or top cells indicate the lengths of the blocks of "O" in that row or column.

(b) If there is more than one number, then from left to right or top to bottom, shaded there are multiple continuous cells in that row or column. The blocks are separated by one or more cells.

(c) The rest of the cells should be marked with "X".

	1	2 1	3	1 3	1 1
2 2					
1					
2					
2					
4					

9 Fill the numbers 1 to 6 exactly once in every row,column, and block.

2	6	5	1	3	
4		3	6	5	2
1	4		3	6	5
	5	6		2	1
5	3	1	2		6
	2		5	1	3

10 Fill the numbers 1 to 6 exactly once in every row,column, and block.

		2	4	6	
1		4	2		
5	2			1	4
4	1			2	6
		1	6		5
	4	5	1		

Word Problems

1 Candice and Ellie have 29 apples in total. Candice has 5 more apples than Ellie, how many apples does Candice have? How about Ellie?

2 Justin and Hailey buy 27 peaches in total. Justin buys 3 more than Hailey, how many peaches does Justin buy? How about Hailey?

3 Nancy and Lucy planted 39 trees in total. Nancy planted 7 fewer than Lucy, so how many trees did Nancy plant? How about Lucy?

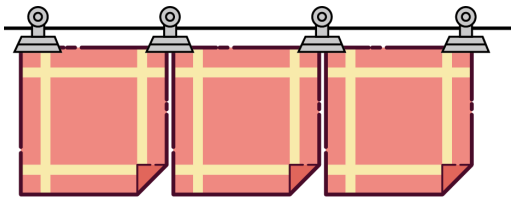
4 Selina and Iris bought 53 sweets in total. Selina bought 7 fewer than Iris, how many sweets did Selina buy? How about Iris?

5 Mia and carl make 57 biscuits in total. Mia makes 5 more than Carl, how many biscuits does Mia make? How about Carl?

6 Candice plants 42 flowers on one side of the road. The road is divided into _____ segments.

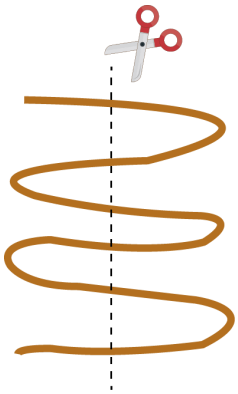
7 How many times do you need to cut this wood into 5 parts? (Cut in the same direction each time)

8 How many clothes-pins do I need to dry 6 handkerchiefs?



A. 5 B. 6 C. 7

9 Cut along the dotted line and the rope is cut into _____ segments.



10 A string was cut 13 times. (The string cannot be twisted.) Each section was 2 meters long. This string was _____ meters long.

G2 Practice Problems

Numbers & Operations

1 (1) $15,890$

(2) $12,065$

(3) $10,183$

(4) $7,038$

2 (1) $1,800$

(2) $1,110$

(3) $3,088$

3 (1) 255

(2) 796

(3) 123

4 (1) 425

(2) 4200

(3) $1,323$

5 (1) 442

(2) 219

Fun Math

1 $1:21$

2:16

2 1:15

2:20

3:50

3 1:7

2:10

3:20

4:4

5:5

4 1:300

2:200

3:100

5

5	1	6	**2**	3	4
2	4	**3**	6	1	5
3	**2**	5	4	6	1
1	**6**	4	5	2	3
4	3	**2**	1	5	6
6	5	1	**3**	4	2

6

6	3	4	1	5	2
2	5	1	4	6	3
3	1	2	5	4	6
4	6	5	2	3	1
5	2	3	6	1	4
1	4	6	3	2	5

7

3	6	4	2	5	1
1	2	5	3	6	4
5	3	1	4	2	6
2	4	6	1	3	5
4	5	3	6	1	2
6	1	2	5	4	3

8

	1	2 1	3	1 3	1 1
2 2			X		
1	X		X	X	X
2	X	X			X
2	X	X			X
4	X				

9

2	6	5	1	3	4
4	1	3	6	5	2
1	4	2	3	6	5
3	5	6	4	2	1
5	3	1	2	4	6
6	2	4	5	1	3

10

3	5	2	4	6	1
1	6	4	2	5	3
5	2	6	3	1	4
4	1	3	5	2	6
2	3	1	6	4	5
6	4	5	1	3	2

Word Problems

1 17; 12.

2 15; 12.

3 16; 23.

4 23; 30.

5 26; 31.

6 41

7 4 times .

8 C

9 7

10 28

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G2 Challenge Problems

For challenge problem analysis, please visit our YouTube channel.

1 Fill in the boxes.

$$\begin{array}{r} 6\ 5 \\ \times\ 3\ 1 \\ \hline \square\ \square\ \square \\ \square\ \square\ \square\ \square \\ \hline \square\ \square\ \square\ \square \end{array}$$

2 Draw all lines of symmetry of the following figures. Then, fill in the blanks with the number of lines of symmetry each figure has.

( ) ( ) ( )

3 Calculate :

(1) $\frac{3}{10}+\frac{4}{10}=$ _____ .

(2) $\frac{3}{8}+\frac{5}{8}=$ _____ .

(3) $\frac{4}{7}-\frac{2}{7}=$ _____ .

(4) $\frac{9}{12}-\frac{4}{12}=$ _____ .

4 Faye has a rectangular garden with an area of 45 m^2. The length of the garden is 9 m. The width of the garden is _____ m.

5 Mira is playing a forming-number game.

(1) She uses only the digits 0, 2, and 6 to make a three-digit number. There are _____ different numbers she can make. (The digit can be repeated.)

(2) She uses only the digits 2, 2, and 3 to make a three-digit number (Each digit can only be used once). There are _____ different numbers she can make.

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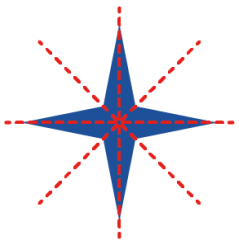
G2 Challenge Problems

For challenge problem analysis, please visit our YouTube channel.

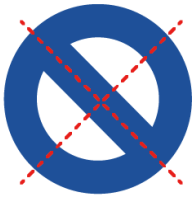
1

$$\begin{array}{r} 6\ 5 \\ \times\ 3\ 1 \\ \hline 6\ 5 \\ 1\ 9\ 5 \\ \hline 2\ 0\ 1\ 5 \end{array}$$

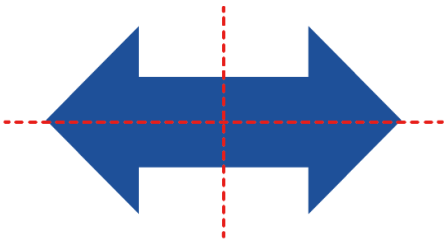
2



(4)



(2)



(2)

3

(1) $\frac{7}{10}$

(2) 1

(3) $\frac{2}{7}$

(4) $\frac{5}{12}$

4 5

5

(1) 18

(2) 3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