

Name: _____

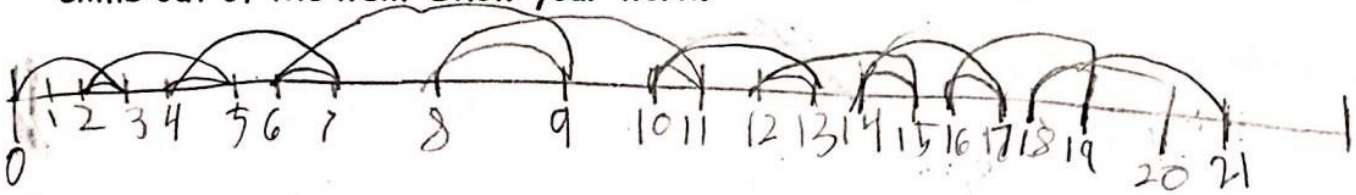
Teacher: _____

le: 1

Grades 1-2 February MATH CHALLENGE

Your challenge is to use your problem solving skills to solve these two problems. There are **MANY** ways to work on these. Be sure to show your thinking using pictures, number, and/or words. Due: February 28, 2017

A frog fell in a well that was 20 feet deep. Each day he climbed 3 feet up the well's sides. At night he slid back down 1 foot. How many days did it take him to climb out of the well? Show your work.



It took him 10 days.



Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.

I can make a plan and use my plan to solve the problem without giving up.

I can use numbers and words to help me make sense of problems.

I can explain my thinking and try to understand others.

I can recognize math in everyday life and use math I know to solve problems.

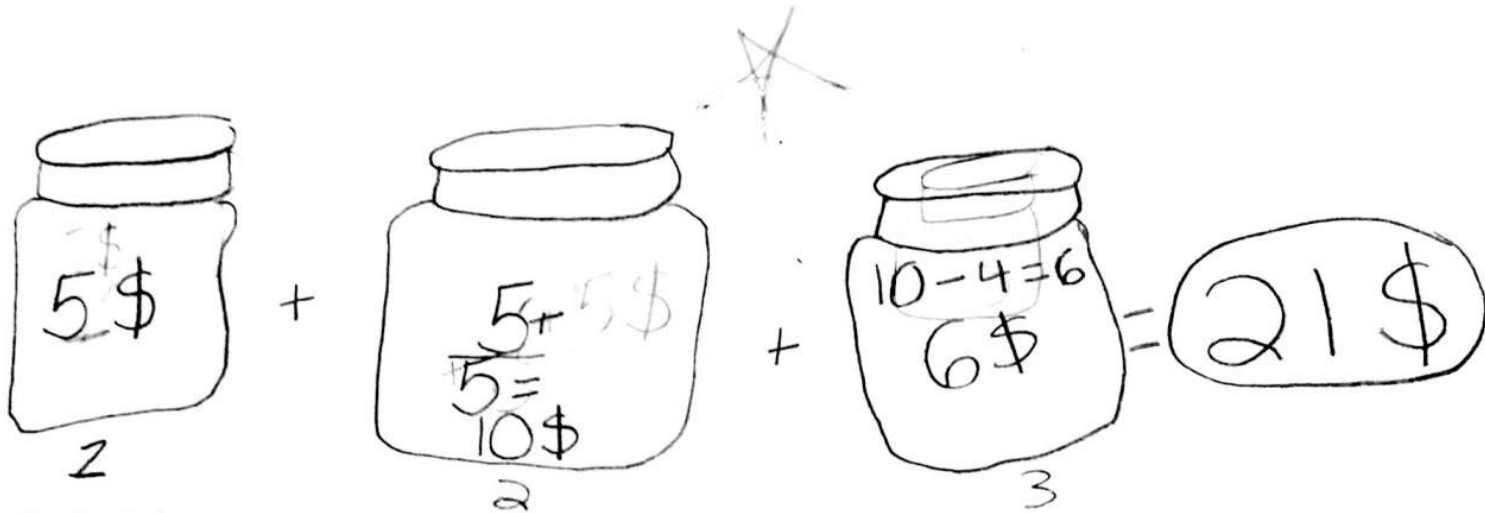
I can use math tools and tell why I chose them!

I can work carefully and be clear when I share my ideas. I can check my work.

I can see and understand how numbers and shapes are put together as parts and wholes.

I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

Ron hides his money in 3 different jars. The first jar has \$5 in it. The second jar has double that amount. The third jar has \$4 less than the second jar. How much money does Ron have altogether? Show your work.



Grade 2 Only:

If Ron spends \$9, how much money will he have left?

$$21 - 9 = 12 \text{ \$}$$

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.

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- I can recognize math in everyday life and use math I know to solve problems.
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- I can see and understand how numbers and shapes are put together as parts and wholes.
- I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

GRADES 3-4 February MATH CHALLENGE

Your challenge is to use your problem solving skills to solve these two problems. There are **MANY** ways to work on these. Be sure to show your thinking using pictures, number, and/or words.
Due: February 28, 2017

Three paper bags contain a total of 24 apples. The first and second bags contain a total of 11 apples. The second and third bags contain a total of 18 apples. How many apples are in the first and third bags together? Show your work.

$$\begin{array}{r} 24 \\ - 18 \\ \hline 6 \end{array}$$

6 = bag 1	+ 13 = bag 3
	19

$$\begin{array}{r} 24 \\ - 11 \\ \hline 13 \end{array}$$

Such clear work!

$$\begin{array}{r} 13 \\ + 6 \\ \hline 19 \\ + 5 \\ \hline 24 \end{array}$$

In the first and third bag there are 19 apples.

Which **MATH PRACTICES** did you use to solve this problem? Circle all that apply.

- I can make a plan and use my plan to solve the problem without giving up.
- I can use numbers and words to help me make sense of problems.
- I can explain my thinking and try to understand others.
- I can recognize math in everyday life and use math I know to solve problems.
- I can use math tools and tell why I chose them!
- I can work carefully and be clear when I share my ideas. I can check my work.
- I can see and understand how numbers and shapes are put together as parts and wholes.
- I can create shortcuts and generalizations and reflect on the reasonableness of my answers.

The oldest living woman is Kamato Hongo of Japan. She is 115 years old. How many months has she lived?

$$115 \times 12 = 1380$$

x	100	10	5
10	1,000	100	50
2	200	20	10

$$1200 + 120 + 60 = 1380$$

Grade 4 Only: How many days (not considering leap years)? How many hours?

more on back

	100	10	5
300	30,000	3,000	1,500
60	6,000	600	300
5	500	50	25

3









120000
60000
30000
15000
6000
3000
1500
750

41,175 days

x 24

This is AWESOME!

Which MATH PRACTICES did you use to solve this problem? Circle all that apply.

 <p>I can make a plan and use my plan to solve the problem without giving up.</p>	 <p>I can use numbers and words to help me make sense of problems.</p>	 <p>I can explain my thinking and try to understand others.</p>	 <p>I can recognize math in everyday life and use math I know to solve problems.</p>
 <p>I can use math tools and tell why I chose them!</p>	 <p>I can work carefully and be clear when I share my ideas. I can check my work.</p>	 <p>I can see and understand how numbers and shapes are put together as parts and wholes.</p>	 <p>I can create shortcuts and generalizations and reflect on the reasonableness of my answers.</p>

over

x	20	4
40,000	800,000	160,000
1,000	20,000	4,000
900	18,000	3,600
70	1,400	280
5	100	20

800,000
20,000
18,000
1,400
100

160,000
4,000
3,600
280
20

839,500
+ 167,900

1,007,400
hrs

167,900

Wow!
I am so
impressed!

~~811,950~~