Math Brainteasers

4th Grade

I am a number between 60 and 80.

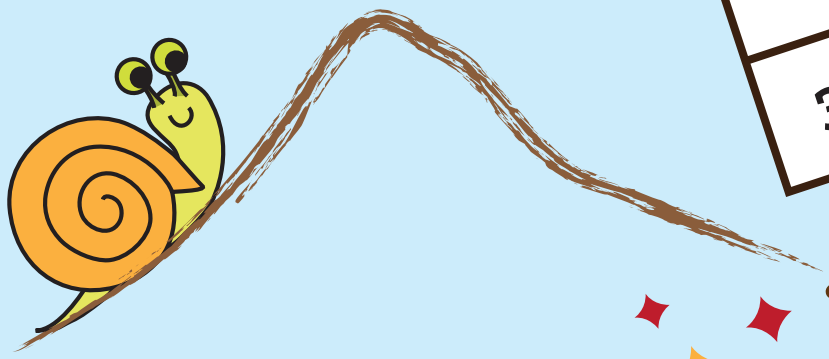
I am an even number.

I am a multiple of 8.

The sum of my digits is 10.

What number am I?

5		
	6	2
3		7



5		
	6	2
3		7

Magic Squares

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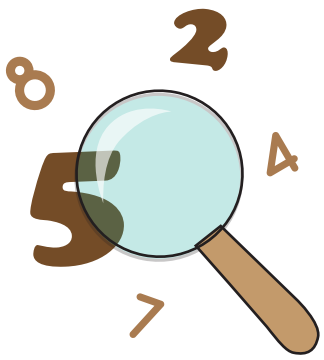
Name _____ Date _____

Mystery Numbers



Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

Example:

I am a number between 20 and 40.
I am an even number.
I am a multiple of 8.
The sum of my digits is 5.
What number am I?

To solve this problem, follow these steps.

1. Make a list of the numbers between 20 and 40.
   21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39

2. Eliminate all odd numbers.
   ~~21~~, 22, ~~23~~, 24, ~~25~~, 26, ~~27~~, 28, ~~29~~, 30, ~~31~~, 32, ~~33~~, 34, ~~35~~, 36, ~~37~~, 38, ~~39~~

3. Eliminate all numbers that are NOT multiples of 8.
   ~~22~~, 24, ~~26~~, ~~28~~, ~~30~~, 32, ~~34~~, ~~36~~, ~~38~~

4. Add the digits of the remaining numbers to determine the answer.
   2+4= 6 and 3+2=5

Through the process of elimination, I know that the mystery number is 32 because it is a match for ALL clues.

Try this one on your own:

I am a number between 10 and 30.
I am an odd number.
I am a multiple of 7.
The sum of my digits is 3.
What number am I?

Name _____ Date _____

Mystery Numbers 2

Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

1. I am a number between 30 and 50.
   I am an odd number.
   I am a multiple of 7.
   The sum of my digits is 13.
   What number am I?

   _____

2. I am a number between 60 and 80.
   I am an even number.
   I am a multiple of 8.
   The sum of my digits is 10.
   What number am I?

   _____

Name _____ Date _____

Mystery Numbers 3

Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

1. I am a number between 90 and 120.
   I am an even number.
   I am a multiple of 11.
   The sum of my digits is 2.
   What number am I?

   _____

2. I am a number between 1 and 101.
   When you are counting by 25 (or counting the value of quarters) you say my name.
   I am an odd number.
   The sum of my digits is 12.
   What number am I?

   _____

Name _____ Date _____

Missing Digits: Addition

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

Example:

$$\begin{array}{r} 4\square \\ +\square 3 \\ \hline 58 \end{array}$$

Since 45 + 13 = 58, the problem should look like this

$$\begin{array}{r} 45 \\ +13 \\ \hline 58 \end{array}$$

1.
$$\begin{array}{r} 2\square \\ +\square 6 \\ \hline 69 \end{array}$$

2.
$$\begin{array}{r} 54 \\ +2\square \\ \hline \square 1 \end{array}$$

3.
$$\begin{array}{r} 65 \\ +\square 3 \\ \hline 13\square \end{array}$$

4.
$$\begin{array}{r} 36 \\ +4\square \\ \hline \square 3 \end{array}$$

5.
$$\begin{array}{r} 2\square 2 \\ +4\square \\ \hline 277 \end{array}$$

Name _____ Date _____

Missing Digits: Subtraction

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

1.
$$\begin{array}{r} 9\square \\ -\ \square 3 \\ \hline 45 \end{array}$$

2.
$$\begin{array}{r} 2\square 8 \\ -\ 4\square \\ \hline \square 25 \end{array}$$

3.
$$\begin{array}{r} 2\square \\ -\ 17 \\ \hline 7 \end{array}$$

4.
$$\begin{array}{r} \square 7\square \\ -\ 195 \\ \hline 177 \end{array}$$

5.
$$\begin{array}{r} 9\square \\ -\ 26 \\ \hline \square 2 \end{array}$$

Name _____ Date _____

Missing Digits: Addition and Subtraction

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

1.
$$\begin{array}{r} 2\square 56 \\ +\ 2\square 1 \\ \hline \square 597 \end{array}$$

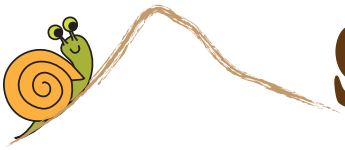
2.
$$\begin{array}{r} \square 86 \\ -\ 34\square \\ \hline 3\square 9 \end{array}$$

3.
$$\begin{array}{r} 796 \\ +\ 3\square\square \\ \hline 1\square 80 \end{array}$$

4.
$$\begin{array}{r} 372 \\ -\ 5\square \\ \hline 3\square 6 \end{array}$$

5.
$$\begin{array}{r} 4\square\square \\ +\ 39\square \\ \hline \square 70 \end{array}$$

Name _____ Date _____

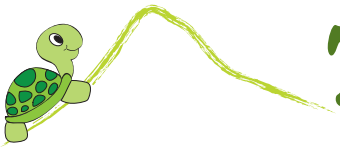


Slippery Snail

Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A snail is trying to get to the top of a drain pipe that is 50 inches tall.
Every hour the snail goes up 7 inches but falls back 2 inches.
At this rate, how many hours will it take the snail to reach the top of the drain pipe?
Use the space below to solve the problem.

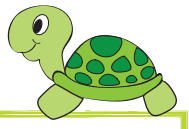
Name _____ Date _____



Trudging Turtle

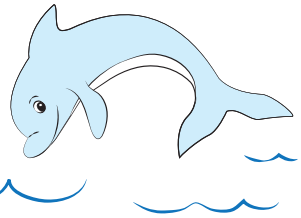
Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A turtle crawls up a 12-foot hill after a storm.
The turtle crawls 4 feet and stops to rest. It slides back 1 ½ feet when it stops.
The turtle repeats this pattern until he reaches the top of the hill.
How many tries does the turtle take before he reaches the top of the hill?
Use the space below to solve the problem.



Name _____ Date _____

Diving Dolphin



Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A dolphin wants to reach the bottom of a 50-foot pool to pick up some diving rings.
Each time he plunges down 10 feet, he floats back up 2 feet.
How many times will the dolphin have to plunge down in the water to reach the rings?
Use the space below to solve the problem.

Name _____ Date _____

Hundreds Board Challenge 1

Directions: Read each clue. Solve for the clue and shade in the answer(s) on the hundreds board.

1. Shade the numbers between 4 and 7.
2. Shade the number that is 7 times 2.
3. Shade the number that is between 10 and 20 whose digits add up to 8.
4. Shade the number that is 22 less than 45.
5. Shade the number that is 2 x 10 + 8.
6. Shade the number that is 30 more than 2.
7. Shade the number that is one less than 40.
8. Shade the number that is half of 86.
9. Shade the number that is 2 less than the value of 2 quarters.
10. Shade the number that is 6 x 9.
11. Shade the number that is 5 x 10 + 7.
12. Shade the numbers between 64 and 67.
13. Shade the value of 3 quarters.
14. Shade the number that is 2 x 30 + 16.
15. Shade the value of 1 dollar – 16 cents.
16. Shade the value of 8 tens and 7 ones.
17. Shade the numbers between 90 and 101 excluding 94, 95, 96 and 97.

Name _____ Date _____

Hundreds Board Challenge

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name _____ Date _____

Hundreds Board Challenge 2

Directions: Read each clue. Solve for the clue and shade in the answer(s) on the hundreds board.

1. Shade the value of a dime and 2 pennies.
2. Shade the number that is 7 times 2.
3. Shade the numbers between 16 and 20.
4. Shade the number that is double 11.
5. Shade the number that is one penny less than a quarter.
6. Shade the number that is 10 + 10 + 8.
7. Shade the number that is two more than 30.
8. Shade the number that is 15 x 2 + 4.
9. Shade the number that is 2 less than the value of 4 dimes.
10. Shade the numbers between 41 and 45.
11. Shade the number that is 2 less than 50.
12. Shade the number that represents the value of 5 dimes and 2 pennies.
13. Shade the number that is 9 x 6.
14. Shade the number that is 100 less than 158.
15. Shade the value of 12 nickels and 2 pennies.
16. Shade the number that is 12 less than 76.
17. Shade the number that is 7 x 10 – 2.
18. Shade the number that is 21 less than 93.
19. Shade the number that is one penny less than 3 quarters.
20. Shade the numbers between 76 and 80.

Name _____ Date _____

Hundreds Board Challenge 2

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name _____ Date _____

Hundreds Board Challenge 3

Directions: Read each clue. Solve for the clue and shade in the answer(s) on the hundreds board.

1. Shade all single-digit numbers.
2. Shade all multiples of 10.
3. Shade all numbers with a 1 in the ones place.
4. Shade the number with the value of 5 nickels and 3 pennies.
5. Shade the number that is 11 + 11 + 11.
6. Shade the number that is one cent less than a quarter.
7. Shade the number that is 10 x 3 + 4.
8. Shade the number that is 9 x 3.
9. Shade the number that is 3 less than 40.
10. Shade the number that is 40 less than 68.
11. Shade the value of 3 dimes, 1 nickel and 3 pennies.
12. Shade the value of 2 quarters and 3 pennies.
13. Shade the number that is 3 less than 61.
14. Shade the number that is 3 more than the number of minutes in an hour.
15. Shade the even number between 66 and 69.
16. Shade the even numbers between 73 and 79.
17. Shade the odd numbers between 72 and 78.
18. Shade the numbers between 91 and 100.

Name _____ Date _____

Hundreds Board Challenge 3

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name _____ Date _____

Patterns in Problem Solving

Directions: Solve each problem by making a table.

Example: Gary ate 1 marshmallow on Monday, 3 marshmallows on Tuesday and 9 marshmallows on Wednesday. If this pattern continues, how many marshmallows will Gary eat on Friday?
Use a table to solve this problem.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Marshmallows eaten	1	3	9		

Note the pattern: Gary is eating 3 times as many marshmallows each day. Therefore, on Thursday he will eat 27 and on Friday he will eat 81.
The completed table would look like this:

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Marshmallows eaten	1	3	9	27	81

The answer would be: Gary will eat 81 marshmallows on Friday.

1. Ruby had 1 rock in her rock collection on Monday, 3 rocks on Tuesday, 6 rocks on Wednesday and 10 rocks on Thursday. If this pattern continues, how many rocks will she have on Saturday?

Name _____ Date _____

2. The Girl Scouts are giving away cookies to people at the mall. The first customer got 4 free cookies. The second customer got 8 free cookies. The third customer got 12 free cookies. The fourth customer got 16 free cookies. If this pattern continues, how many free cookies will the seventh customer get?

3. Jenny is giving away her seashell collection. In January she gave away 60 seashells. In February, she gave away 45 seashells. In March, she gave away 30 seashells. If this pattern continues, what month will she have 0 seashells left to give?

Name _____ Date _____

More Patterns in Problem Solving

Directions: Solve each problem by making a table.

1. The students in Miss Harper's class are taking turns going to the water fountain. Three students went to the water fountain first. When they returned, 6 students went. The third time, 9 students went to the water fountain. If this pattern continues, how many students will go to the water fountain on the fifth trip?

2. Brent and his assistants are painting rooms in a new apartment building. The first day, they paint 2 rooms. The second day, they paint 4 rooms. The third day, they paint 6 rooms. If this pattern continues, how many rooms will they paint on the sixth day?

Name _____ Date _____

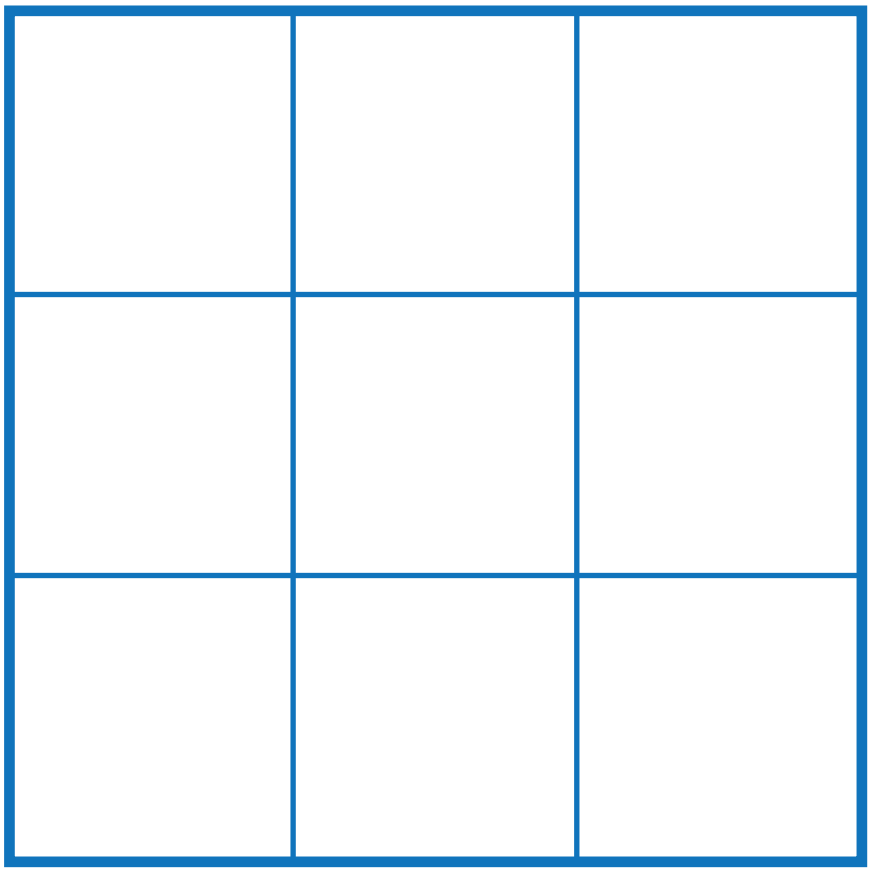
3. Sasha is saving money from her allowance each week and placing it in her piggy bank. The first week, she saves 10 cents. The second week, she saves 25 cents. The third week, she saves 40 cents. If this pattern continues, how much money will she save on the tenth week?

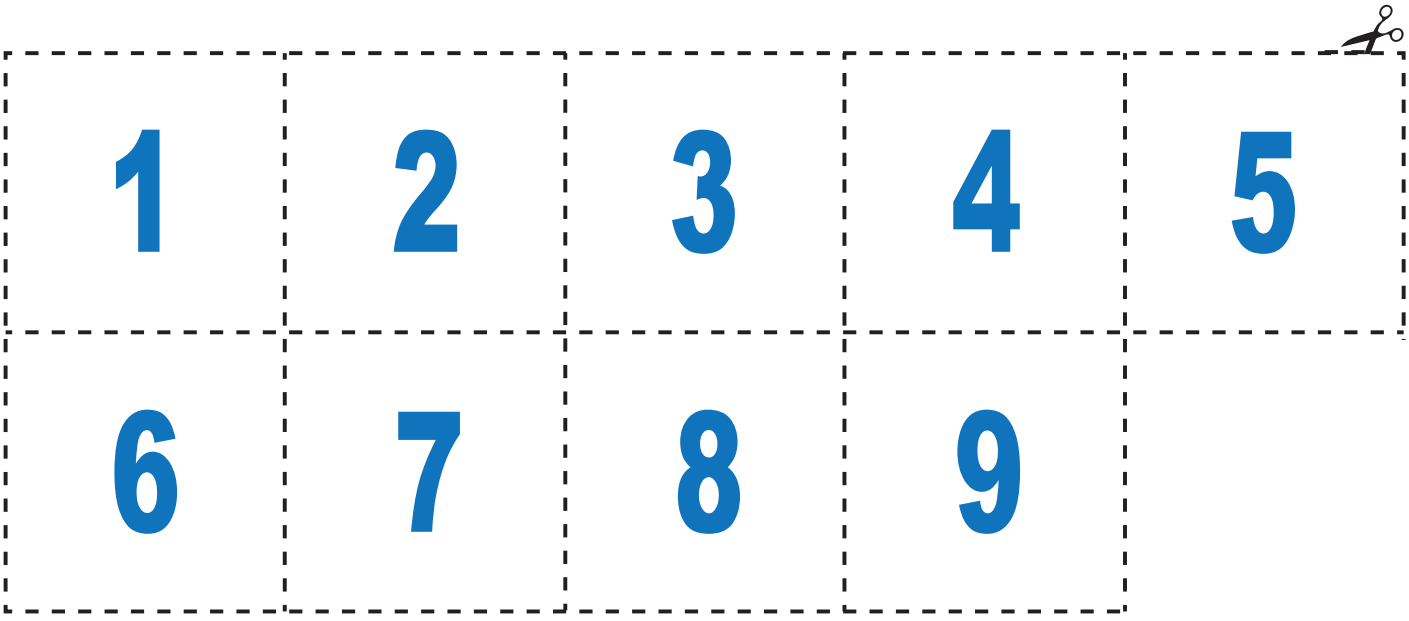
4. Using problem number 3, determine how much money will be in Sasha's piggy bank after 10 weeks of savings.

Name _____ Date _____

Magic Square Cut Up

Directions: Cut out the digits at the bottom of the page and arrange them inside the magic square so that the sum of the three numbers in any direction (vertically, horizontally or diagonally) is 15.





Name _____ Date _____

Magic Squares

Directions: Complete the magic squares. The sum across each row and down each column must be the same as the sum along each diagonal.

1. **Use the number 2-10 only once to complete this square**

5		
	6	2
3		7

2. **Use the number 1-9 only once to complete this square.**

	1	8
	5	3
2		

3. **Use the number 1-9 only once to complete this square.**

	3	4
	5	
6		2

DIPLOMA

Hereby bestowed upon

_____

for excellence in
completion of

_____

Answer Sheets

Math Brainteasers

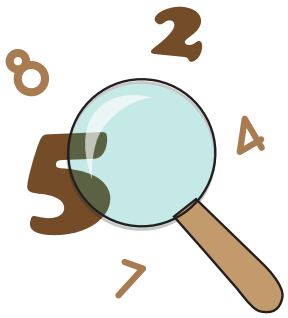
Mystery Numbers (Part One)
Mystery Numbers (Part Two)
Mystery Numbers (Part Three)
Missing Digits: Addition
Missing Digits: Subtraction
Missing Digits: Addition and Subtraction
Math Brainteasers: Slippery Snail
Math Brainteasers: Trudging Turtle
Math Brainteasers: Diving Dolphin
Hundreds Board Challenge #1
Hundreds Board Challenge #2
Hundreds Board Challenge #3
Patterns in Problem Solving
More Patterns in Problem Solving
Magic Square Cutup
Magic Squares

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Mystery Numbers



Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

Example:

I am a number between 20 and 40.
I am an even number.
I am a multiple of 8.
The sum of my digits is 5.
What number am I?

To solve this problem, follow these steps.

1. Make a list of the numbers between 20 and 40.
   21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39

2. Eliminate all odd numbers.
   ~~21~~, 22, ~~23~~, 24, ~~25~~, 26, ~~27~~, 28, ~~29~~, 30, ~~31~~, 32, ~~33~~, 34, ~~35~~, 36, ~~37~~, 38, ~~39~~

3. Eliminate all numbers that are NOT multiples of 8.
   ~~22~~, 24, ~~26~~, ~~28~~, ~~30~~, 32, ~~34~~, ~~36~~, ~~38~~

4. Add the digits of the remaining numbers to determine the answer.
   2+4= 6 and 3+2=5

Through the process of elimination, I know that the mystery number is 32 because it is a match for ALL clues.

Try this one on your own:

I am a number between 10 and 30.
I am an odd number.
I am a multiple of 7.
The sum of my digits is 3.
What number am I?

21

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Mystery Numbers 2

Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

1. I am a number between 30 and 50.
   I am an odd number.
   I am a multiple of 7.
   The sum of my digits is 13.
   What number am I?

   49

2. I am a number between 60 and 80.
   I am an even number.
   I am a multiple of 8.
   The sum of my digits is 10.
   What number am I?

   64

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Mystery Numbers 3

Directions: Read all of the clues to determine the mystery number. Use the space provided below each problem to show your work.

1. I am a number between 90 and 120.
   I am an even number.
   I am a multiple of 11.
   The sum of my digits is 2.
   What number am I?

   110

2. I am a number between 1 and 101.
   When you are counting by 25 (or counting the value of quarters) you say my name.
   I am an odd number.
   The sum of my digits is 12.
   What number am I?

   75

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Missing Digits: Addition

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

Example:

$$\begin{array}{r} 4\,\square \\ +\,\square\,3 \\ \hline 58 \end{array}$$

Since 45 + 13 = 58, the problem should look like this

$$\begin{array}{r} 4\,5 \\ +\,1\,3 \\ \hline 5\,8 \end{array}$$

1.
$$\begin{array}{r} 2\,3 \\ +\,\boxed{4}\,6 \\ \hline 6\,9 \end{array}$$

2.
$$\begin{array}{r} 5\,4 \\ +\,2\,\boxed{7} \\ \hline \boxed{8}\,1 \end{array}$$

3.
$$\begin{array}{r} 6\,5 \\ +\,\boxed{7}\,3 \\ \hline 1\,3\,\boxed{8} \end{array}$$

4.
$$\begin{array}{r} 3\,6 \\ +\,4\,\boxed{7} \\ \hline \boxed{8}\,3 \end{array}$$

5.
$$\begin{array}{r} 2\,\boxed{3}\,2 \\ +\,\,4\,\boxed{5} \\ \hline 2\,7\,7 \end{array}$$

Answer Sheet

Name _____ Date _____

Missing Digits: Subtraction

ANSWER SHEET

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

1.
$$\begin{array}{r} 9\,\boxed{8} \\ -\,\boxed{5}\,3 \\ \hline 4\,5 \end{array}$$

2.
$$\begin{array}{r} 2\,\boxed{6}\,8 \\ -\;\;4\,\boxed{3} \\ \hline \boxed{2}\,2\,5 \end{array}$$

3.
$$\begin{array}{r} 2\,\boxed{4} \\ -\;1\,7 \\ \hline 7 \end{array}$$

4.
$$\begin{array}{r} \boxed{3}\,7\,\boxed{2} \\ -\,1\,9\,5 \\ \hline 1\,7\,7 \end{array}$$

5.
$$\begin{array}{r} 9\,\boxed{8} \\ -\;2\,6 \\ \hline \boxed{7}\,2 \end{array}$$

Answer Sheet

Name _____ Date _____

Missing Digits: Addition and Subtraction

ANSWER SHEET

Directions: Find the missing digits in the following problems. Place your answers in the boxes provided.

1.
$$\begin{array}{r} 2\,\boxed{3}\,5\,6 \\ +\quad 2\,\boxed{4}\,1 \\ \hline \boxed{2}\,5\,9\,7 \end{array}$$

2.
$$\begin{array}{r} \boxed{6}\,8\,6 \\ -\quad 3\,4\,\boxed{7} \\ \hline 3\,\boxed{3}\,9 \end{array}$$

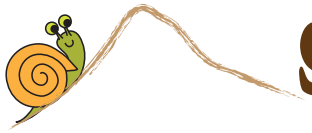
3.
$$\begin{array}{r} 7\,9\,6 \\ +\,3\,\boxed{8}\,\boxed{4} \\ \hline 1\,\boxed{1}\,8\,0 \end{array}$$

4.
$$\begin{array}{r} 3\,7\,2 \\ -\quad 5\,\boxed{6} \\ \hline 3\,\boxed{1}\,6 \end{array}$$

5.
$$\begin{array}{r} 4\,\boxed{7}\,\boxed{5} \\ +\,3\,9\,\boxed{5} \\ \hline \boxed{8}\,7\,0 \end{array}$$

Answer Sheet

Name _____ Date _____



Slippery Snail

ANSWER SHEET

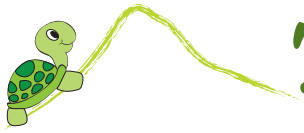
Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A snail is trying to get to the top of a drain pipe that is 50 inches tall.
Every hour the snail goes up 7 inches but falls back 2 inches.
At this rate, how many hours will it take the snail to reach the top of the drain pipe?
Use the space below to solve the problem.

It will take the snail 10 hours to reach the top of the drain pipe.

Answer Sheet

Name _____ Date _____

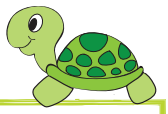


Trudging Turtle

ANSWER SHEET

Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A turtle crawls up a 12-foot hill after a storm.
The turtle crawls 4 feet and stops to rest. It slides back 1 ½ feet when it stops.
The turtle repeats this pattern until he reaches the top of the hill.
How many tries does the turtle take before he reaches the top of the hill?
Use the space below to solve the problem.

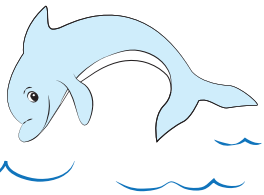


It will take the turtle 5 tries before reaching the top of the hill.

Answer Sheet

Name _____ Date _____

Diving Dolphin



ANSWER SHEET

Directions: Read the problem and solve. (Hint: Draw a picture to help.)

A dolphin wants to reach the bottom of a 50-foot pool to pick up some diving rings. Each time he plunges down 10 feet, he floats back up 2 feet. How many times will the dolphin have to plunge down in the water to reach the rings? Use the space below to solve the problem.

It will take the dolphin 7 tries before reaching rings at the bottom of the pool.

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Hundreds Board Challenge 1

The shaded design looks like a spaceship.

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Hundreds Board Challenge 2

The shaded area spells the word "HI".

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Answer Sheet

Name _____ Date _____

ANSWER SHEET

Hundreds Board Challenge 3

The shaded area makes a smiley face.

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	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Answer Sheet

Name _____ Date _____

Patterns in Problem Solving

ANSWER SHEET

Directions: Solve each problem by making a table.

Example: Gary ate 1 marshmallow on Monday, 3 marshmallows on Tuesday and 9 marshmallows on Wednesday. If this pattern continues, how many marshmallows will Gary eat on Friday?
Use a table to solve this problem.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Marshmallows eaten	1	3	9		

Note the pattern: Gary is eating 3 times as many marshmallows each day. Therefore, on Thursday he will eat 27 and on Friday he will eat 81.
The completed table would look like this:

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Marshmallows eaten	1	3	9	27	81

The answer would be: Gary will eat 81 marshmallows on Friday.

1. Ruby had 1 rock in her rock collection on Monday, 3 rocks on Tuesday, 6 rocks on Wednesday and 10 rocks on Thursday. If this pattern continues, how many rocks will she have on Saturday?

21 rocks

Answer Sheet

Name _____ Date _____

2. The Girl Scouts are giving away cookies to people at the mall. The first customer got 4 free cookies. The second customer got 8 free cookies. The third customer got 12 free cookies. The fourth customer got 16 free cookies. If this pattern continues, how many free cookies will the seventh customer get?

28 cookies

3. Jenny is giving away her seashell collection. In January she gave away 60 seashells. In February, she gave away 45 seashells. In March, she gave away 30 seashells. If this pattern continues, what month will she have 0 seashells left to give?

May

Answer Sheet

Name _____ Date _____

ANSWER SHEET

More Patterns in Problem Solving

Directions: Solve each problem by making a table.

1. The students in Miss Harper's class are taking turns going to the water fountain. Three students went to the water fountain first. When they returned, 6 students went. The third time, 9 students went to the water fountain. If this pattern continues, how many students will go to the water fountain on the fifth trip?

15 students

2. Brent and his assistants are painting rooms in a new apartment building. The first day, they paint 2 rooms. The second day, they paint 4 rooms. The third day, they paint 6 rooms. If this pattern continues, how many rooms will they paint on the sixth day?

12 rooms

Answer Sheet

Name _____ Date _____

3. Sasha is saving money from her allowance each week and placing it in her piggy bank. The first week, she saves 10 cents. The second week, she saves 25 cents. The third week, she saves 40 cents. If this pattern continues, how much money will she save on the tenth week?

$1.45

4. Using problem number 3, determine how much money will be in Sasha's piggy bank after 10 weeks of savings.

$7.75

Answer Sheet

Name _____ Date _____

Magic Square Cut Up

Directions: Cut out the digits at the bottom of the page and arrange them inside the magic square so that the sum of the three numbers in any direction (vertically, horizontally or diagonally) is 15.

POSSIBLE SOLUTION

4	3	8
9	5	1
2	7	6

Answer Sheet

Name _____ Date _____

Magic Squares

ANSWERS

Directions: Complete the magic squares. The sum across each row and down each column must be the same as the sum along each diagonal.

1. **Use the number 2-10 only once to complete this square**

5	4	9
10	6	2
3	8	7

2. **Use the number 1-9 only once to complete this square.**

6	1	8
7	5	3
2	9	4

3. **Use the number 1-9 only once to complete this square.**

8	3	4
1	5	9
6	7	2