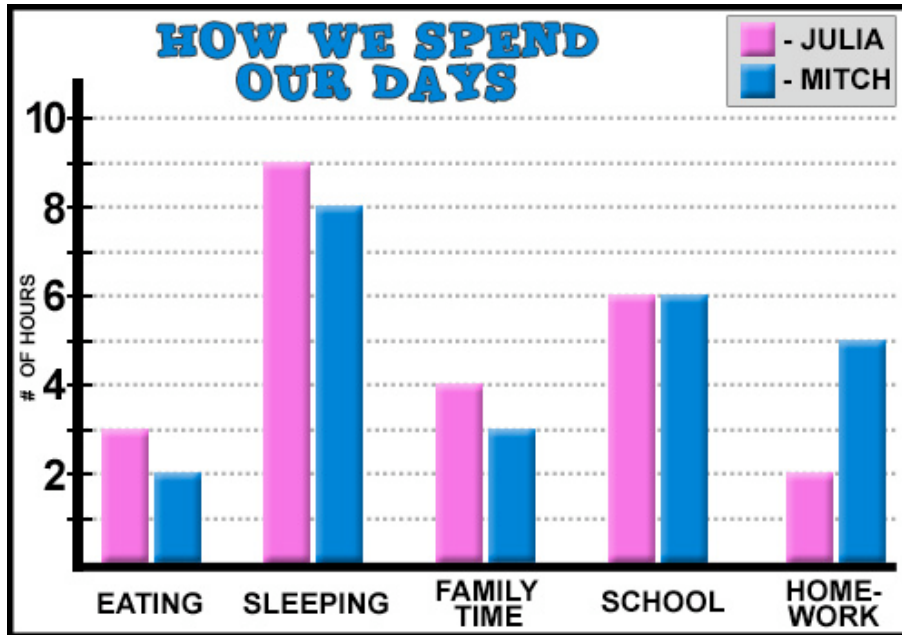# Worksheet Set - Problem Solving 3-4

SKILLS COVERED:
Problems in the following areas:
Data Management & Probability
Geometry
Measurement
Numeration
Patterning & Algebra

Who sleeps more? _____

Who does more homework? _____

How many more hours than Mitch does Julia spend with her family? _____

How many more hours than Julia does Mitch spend doing homework? _____

Who spends more time in school? _____

How many hours in total does Mitch eat, sleep and do homework? _____

How many hours in total do Mitch and Julia sleep each night? _____

How many hours in total do Mitch and Julia spend with their families? _____

Is the total time both kids spend with their families more than the total time they do homework? _____
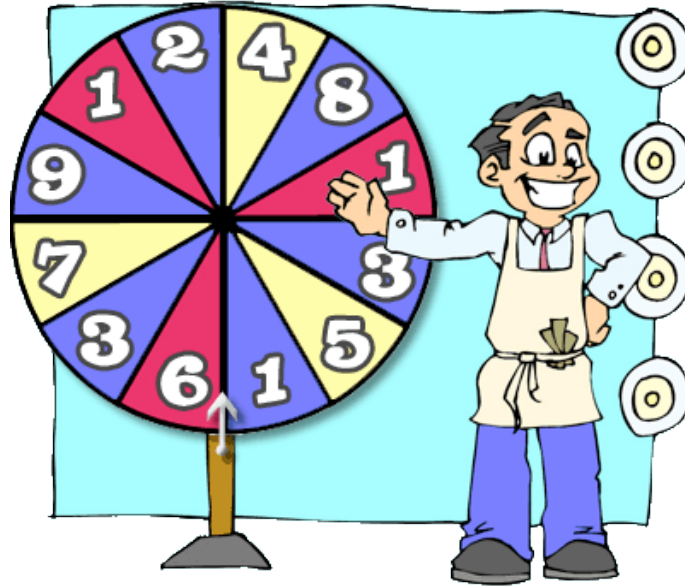
At the school spring carnival, Mr. Wilsons's Wacky Wheel was one of the most popular games. Look at the wheel and and enter the probability out of 12 that:

What is the probability that...

the wheel will land on a 1? _____ out of 12

the wheel will land on a 9? _____ out of 12

the wheel will land on a 3? _____ out of 12

the wheel will land on a 3 or an 8? _____ out of 12

the wheel will land on a 1, 3 or 5? _____ out of 12

the wheel will land on an even number? _____ out of 12

the wheel will land on an odd number? _____ out of 12

the wheel will land on a multiple of 3? _____ out of 12

the wheel will land on a multiple of 2? _____ out of 12

the wheel will land on a multiple of 4? _____ out of 12

	1	2	3	4	5	6	7	8
A	1	7	6	5	3	8	6	9
B	7	5	2	6	9	5	4	6
C	4	8	5	7	3	6	8	2
D	9	2	5	6	8	3	5	9
E	4	8	7	4	6	8	7	3
F	7	5	6	5	8	2	6	9
G	6	4	2	9	6	9	4	8

Use the grid to answer the problems below.
Just look in the co-ordinates for the numbers you need.

A4 + C6 = _____

E2 - A7 = _____

A4 + D8 + F1 = _____

G1 + G4 + D5 = _____

F3 x C6 = _____

A9 x C4 = _____

G7 x B1 = _____

D9 / A5 = _____

G1 / C5 = _____

E6 x B6 = _____
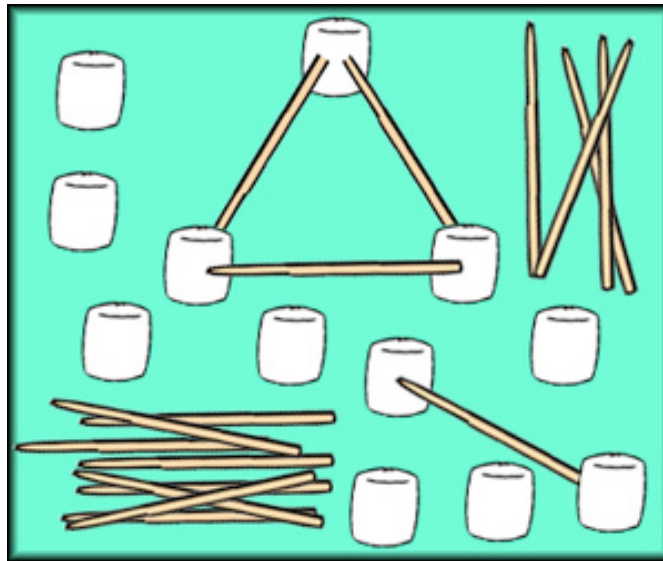
Your teacher has given you a special assignment. She has given you a bunch of marshmallows and toothpicks to make 3D figures from. How many marshmallows and toothpicks will you need to make each figure below?
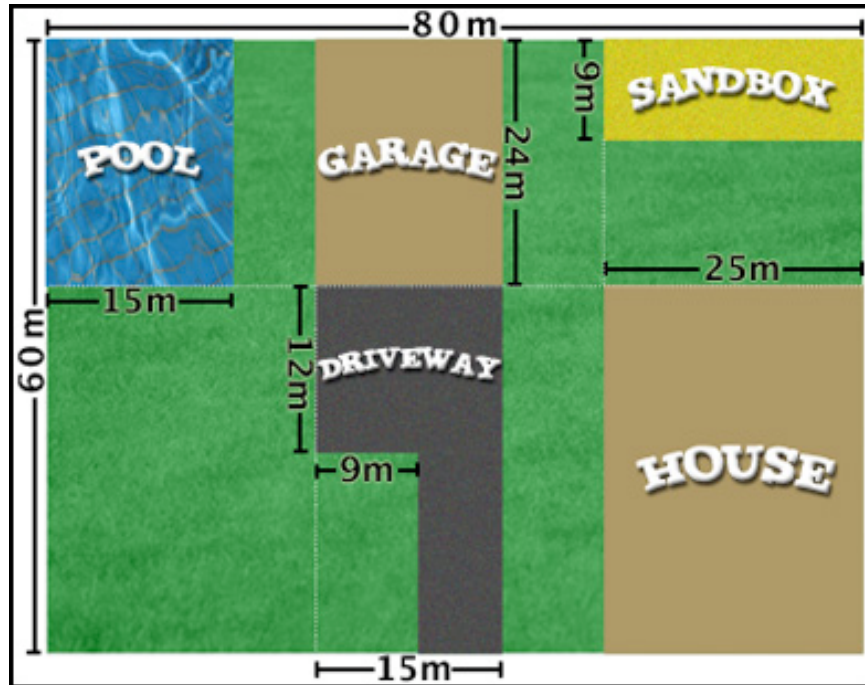
CUBE: _____ marshmallows, _____ toothpicks

RECTANGULAR PRISM: _____ marshmallows, _____ toothpicks

TRIANGULAR PRISM: _____ marshmallows, _____ toothpicks

SQUARE PYRAMID: _____ marshmallows, _____ toothpicks

TRIANGULAR PYRAMID: _____ marshmallows, _____ toothpicks

Look at the diagram above that shows a yard from above. Then tell me the area and perimeter of each of the parts of the yard. If you get stuck, you might have to look at the measurements of other objects to figure it all out.

POOL
perimeter: _____ m

GARAGE
perimeter: _____ m

SANDBOX
perimeter: _____ m

HOUSE
perimeter: _____ m

DRIVEWAY
perimeter: _____ m

Use these words to answer the following riddles:

CENTURY
MINUTE
MILLENNIUM
WEEK
HOUR
DAY
SECOND
MONTH
YEAR

I am one thousand years long. What am I? _____

I am 1/7 of a week. What am I? _____

I am one hundred years long. What am I? _____

There are 72 of me in 3 days. What am I? _____

There are 48 of me in 4 years. What am I? _____

There are 3600 of me in one hour. What am I? _____

There are 1440 of me every day. What am I? _____

I am 52 weeks long. What am I? _____

I love cherry pies. Laura has baked a big cherry pie and says that I can have either 1/8 of the pie or 1/10 of it. I want the most cherry pie I can get! Which fraction of the pie is greater?

_____

Nicole is selling her doll collection. She's already sold 1/3 of the dolls. What fraction of the dolls remain unsold?

_____

Five minutes is what fraction of an hour?

_____

There are 23 students in Mrs. Matt's third grade. Eleven of the students are boys. What fraction of the class do girls represent?

_____

Harris is walking from his farm to the nearby village. It's a four kilometer walk and he has only one more kilometer to go. He has already walked _____ of the way.

Which fraction with a numerator of 1 is greater than 1/5 and less than 1/3. What fraction am I?

_____

Jennifer T., Danielle, Jordan, and Tiffany shared a pizza for lunch. Jennifer T. had 3/8 of the pizza, Danielle had 1/4 of the pizza and Jordan had 1/8 of the pizza. How much pizza was left over for Tiffany?

_____

I am a number. If you round off the number of hours in two days to the nearest 10, you'll get my value. What number am I?_____

I am an amount of money. I am the cost of five $ .88 hamburgers rounded to the nearest dollar. How much money am I?_____

I am a number. I am the difference between 800 rounded to the nearest 10 and 800 rounded to the nearest 100. How much am I? _____

I am a number. I am the smallest number that can become 500 when itís rounded to the nearest 10. What number am I? _____

I am a number. I am the largest number that must equal two thousand when rounded to the nearest thousand. What number am I?_____

I am a number. I am the sum of 1,270 rounded to the nearest 10, 1,270 rounded to the nearest 100, and 1,270 rounded to the nearest 1,000. What number am I?_____

I am a number. I am a multiple of nine. I am 30 when lím rounded to the nearest 10. What number am I? _____

I am a number. I am the number of days in a decade rounded to the nearest thousand. What number am I? _____

I am a two digit number. If you round me to the nearest hundred, my value will increase by ten. What am I? _____

I am number. If you round me to the nearest 10, I go up to 60. I am a larger number than 58. I am an odd number. What am I? _____

Essential Skills

Match the number patterns with their descriptions.

2, 4, 8, 16, 32   multiplied by three

20, 18, 16, 14, 12   multiplied by five

3, 7, 15, 31, 63   added by five

4, 10, 22, 46   divided by two

1, 3, 5, 7, 9   multiplied by two, added by one

5, 10, 15, 20, 25   subtracted by two

2, 10, 50, 250   multiplied by two

120, 60, 30, 15   multiplied by one

1, 3, 9, 27   added by two

10, 10, 10, 10, 10   added by one, multiplied by two

Your teacher places a bunch of tickets on your desk with math equations on them. Your job is to match up the tickets that have equal value.

Connect the pairs of equal value tickets with a line.

20 + 5

9 x 3

7 x 7

4 + 10

9 x 4

6 x 6

40 - 13

28 + 7

4 x 5

1 x 1

2 x 10

7 x 5

7 x 2

5 x 5

4 - 3

40 + 9