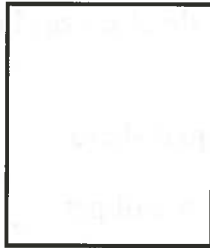

Equal Shares

MAC Assessment Task



Matt and Jo have one brownie to share.

1. How can Matt and Jo share one brownie so that each gets a fair share? Use the shape below to show fair shares.



Describe the equal share
each person gets _____

Sue, Don, Sara, and David have a large candy bar to share.

2. How can the 4 children fair share a candy bar?
Show one way in the rectangle below.



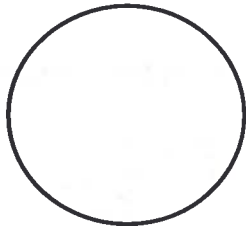
Describe the equal share
each person gets _____

David thinks he knows another way to fair share the candy bar. Use the rectangle below to show a different way to have equal shares for 4 children.



3. How can Abel, Ben and Cathy fair share a pizza?

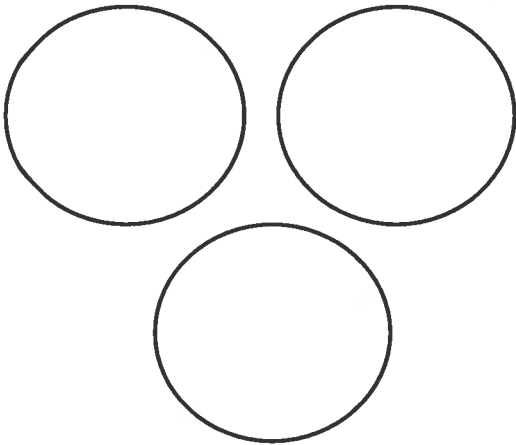
Show one way in the shape below.



Describe the equal share
each person will get _____

4. Abel, Ben, Cathy and their mom have enough money to buy three pizzas.

Show one way for these four people to fair share the three pizzas below.



Describe the equal share
each person will get _____

Tell how you know your answer is correct.

Lunchtime Clean Up

MAC Assessment Task

The 3rd grade students at Evergreen Elementary School want to show how much trash they generate each day. They have collected the following data from a typical lunchtime.

Lunchtime Trash	Amount
plastic water bottles	15
milk cartons	20
paper plates	45
plastic silverware	35
paper napkins	33

1. What is the total number of pieces of trash collected?

Show how you figured it out.

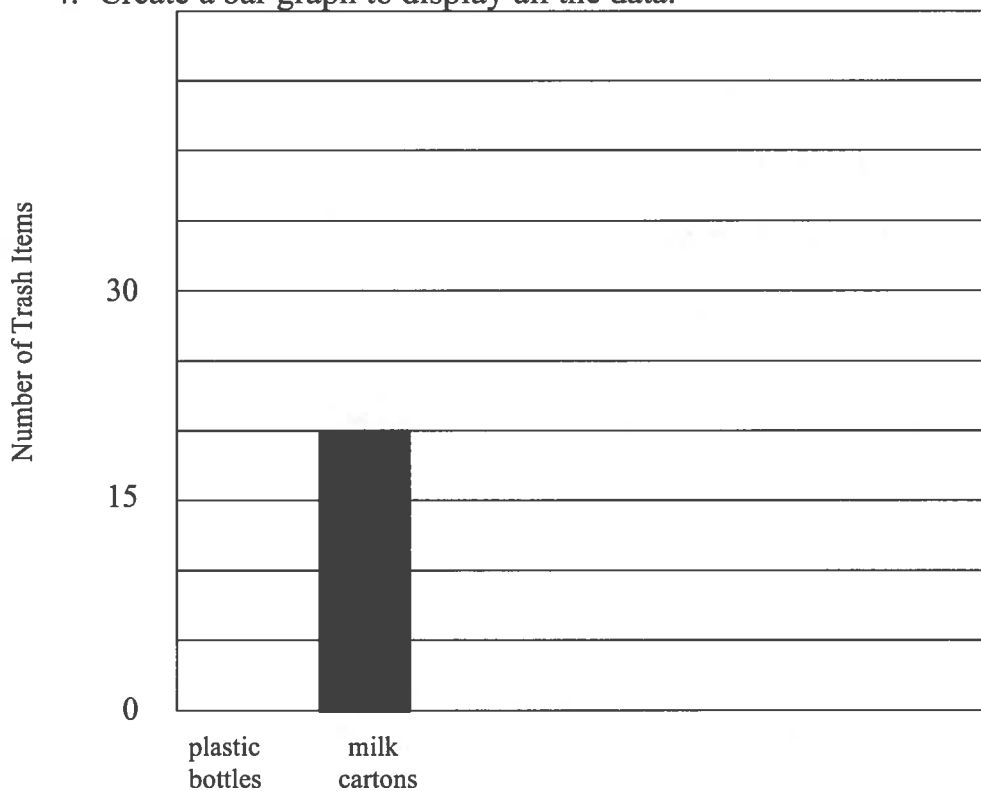
2. How many more paper items (napkins and plates) were collected than the number of plastic items (water bottles and silverware)?

Show how you figured it out.

3. How many times bigger is the number of paper plates than the number of plastic water bottles? _____

Show how you figured it out.

4. Create a bar graph to display all the data:



Multiplication Facts

MAC Assessment Task

The class is using the multiplication table to solve problems.

X	0	1	2	3	4	5	6	7	8	9	10	11	12
0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10	11	12
2	0	2	4	6	8	10	12	14	16	18	20	22	24
3	0	3	6	9	12	15	18	21	24	27	30	33	36
4	0	4	8	12	16	20	24	28	32	36	40	44	48
5	0	5	10	15	20	25	30	35	40	45	50	55	60
6	0	6	12	18	24	30	36	42	48	54	60	66	72
7	0	7	14	21	28	35	42	49	56	63	70	77	84
8	0	8	16	24	32	40	48	56	64	72	80	88	96
9	0	9	18	27	36	45	54	63	72	81	90	99	108
10	0	10	20	30	40	50	60	70	80	90	100	110	120
11	0	11	22	33	44	55	66	77	88	99	110	121	132
12	0	12	24	36	48	60	72	84	96	108	120	132	144

1. Use the table to find the answer to 11×12 .
What is the answer? _____
2. Mia and Kristi notice that the numbers in the rows and columns multiplying by 2 and by 4 are all even. Explain why these numbers are all even.

3. Kristi notices a pattern in the numbers in the rows and columns multiplying by 3. What pattern do you notice?

4. Mia tells Kristi that you can use the table to solve division problems. Give Kristi an example and tell her why it works or doesn't work.

Example:

5. Mia has trouble remembering the product of 7×8 .

Kristi says that you can add $40 + 16$ to get the answer.

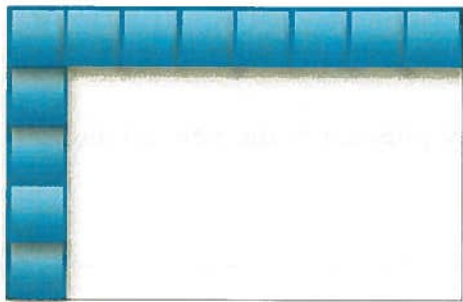
Is Kristi correct? _____

Why did Kristi select those numbers?

Kitchen Tiles

MAC Assessment Task

Austin's Mom is getting a new kitchen. The worker is making the counter with square tiles. The worker has just started working.



1. How many tiles will it take in all to make this counter? _____
Explain how you figured it out.

The worker is making another counter. It will be 5 tiles wide and 6 tiles long.

2. How many tiles will they need to make that counter? _____
Draw a picture of this counter showing all the tiles.

Austin's Mom decides she wants the two counters placed together side by side.

3. How wide and long will this whole counter be? _____

4. How many tiles will cover this counter? _____

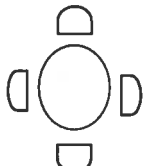
5. Write a number sentence to show how many tiles are in the new counter.

Explain how you figured it out.

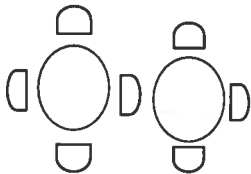
Tables and Chairs

MAC Assessment Task

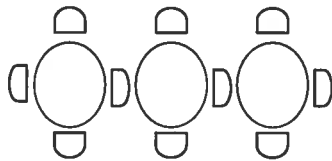
Ms. Scott wants to know how many students can sit at her tables.



1 table
4 chairs



2 tables
7 chairs



3 tables
10 chairs

1. Draw a diagram to show four tables and chairs.

Angel makes a chart to show the number of tables Ms. Scott needs to use for different numbers of students.

Number of Tables	1	2	3	4	5
Number of Chairs	4	7	10		

2. How many chairs will fit around 4 tables?
Write your answer in the chart above.

3. How many chairs does Ms. Scott need to fit around 5 tables? _____

Explain how you figured it out.

4. Angel draws a diagram for 7 tables.
How many chairs does he show? _____

Show how you figured it out.

5. Angel says that Ms. Scott can fit 32 chairs around 10 tables. Tell Angel why he is wrong.

How many chairs are needed for 10 tables? _____