Lowell Public Schools
Curriculum, Instruction, and Assessment
Henry J. Mroz Administration Office
155 Merrimack Street
Lowell, Massachusetts 01852

Get Ready for School!
Summer Mathematics Activities
2020
Entering Grade 4

Dear Guardian and Student,

Just like reading, regular practice over the summer with math will help your child prepare for entering the next grade. Please use the math activity list to have fun talking and doing mathematics together! Remember to always ask your child, "How did you figure it out?"

To use the math activity list:

- This summer try to complete the number of activities recommended for your grade level.
- When you do one, cross it off. Write down on the log on the back of this sheet which activity you did.
- Bring the log back to your new teacher in September for a school reward and a chance to be selected to attend a fall televised school committee meeting for a "Spotlight on Excellence!"
- When you see this symbol,  choose 1 or more activities from page 2.
- Some helpful materials to have around:
  - A folder for these papers
  - Blank paper
  - A pencil
  - A deck of playing cards with the kings, queens, and jacks taken out
  - A pair of dice
  - Crayons
  - Coins

Have a great summer vacation!

Sincerely,

Rob Desmond

Chief Academic Officer
Lowell Public Schools

Summer Math Activity Log

Activity log for student entering grade _____. Record the dates and descriptions of the math activities you complete. Bring this log back to your new teacher in August.

Activity #	Date Completed	Description of Activity
Example	7/2/20	Used shapes to make a 4th of July picture…***or*** prodigy game …***or*** Close to 100
#1		
#2		
#3		
#4		
#5		
#6		
#7		
#8		
#9		
#10		
#11		
#12		
#13		
#14		
#15		
#16		
#17		
#18		
#19		
#20		

Student's Name: _____

Parent Signature: _____

Get Ready for Grade 4: Math Activities

Complete at least 20 math activities this summer. Each time, choose an activity from the boxes below – or from the back. Cross off a box when you do it and record the activity on your math log.

Count by 3s to 36. Count backwards by 3s to zero.	Choose from the back! 	Use the shapes you know to make a Fourth of July picture.	Draw 576 using place value disks.	Choose from the back! 
Do counting squats while you count from 289 to 321. Can you do it backwards?	Choose from the back! 	Choose from the back! 	Solve 236 + 450. Draw a picture to show your thinking.	Choose from the back! 
Count by 10s from 70 to 300. Now count by 5s.	Choose from the back! 	Choose from the back! 	Choose from the back! 	Use real coins or draw coins to show as many ways to make $1 as you can.
Choose from the back! 	Find some rectangles. Measure to figure out the perimeter. Can you figure out the area?	Choose from the back! 	Find three different arrays (e.g. eggs in a carton). Say how many rows and columns in each.	Choose from the back! 
Write the numbers from 675 to 730.	Choose from the back! 	Choose from the back!  .	Do jumping jacks as you count up by twos to 40 and back down to 0.	Choose from the back! 
Choose from the back! 	Choose from the back! 	Measure the route from your bathroom to your bed. Walk heel to toe, and count your steps.	Choose from the back! 	Make a story problem that goes with 8 x 7.

Get Ready for Grade 4

 **Choice Activities** 

1. Read a Cool Mathematics Book:

A Chair for My Mother by Vera B. Williams Benny's Pennies by Pat Brisson Emeka's Gift by Ifeoma Onyefulu Math Appeal by Greg Tang My Painted House, My Friendly Chicken, and Me by Maya Angelou	Out for the Count by Kathryn Cox Pattern Fish by Trudy Harris Rooster's Off to See the World by Eric Carle The Greedy Triangle by Marilyn Burns The Math Curse by Jon Scieszka and Lane Smith How much is a Million by David Schwartz
Find Mathematics Books to Read Online at Epic!: https://www.getepic.com/ Parents can sign up for free!	

2. Use a cool mathematics website!

http://www.gregtangmath.com/games www.aaamath.com www.coolmath4kids.com http://pbskids.org/games/measurement/ https://www.prodigygame.com/	www.mathplayground.com www.primarygames.com/curriculum/math.htm www.funbrain.com www.zearn.org/ https://www.ixl.com/math/
Play ST Math Games Online: https://www.stmath.com/ If your school already uses ST Math, you can login through your Clever account. If not, parents can sign their children up for free using the link above.	

3. Do a counting activity or game:

Double Compare – Deal all the cards out. Put the set of cards facedown. Both players turn over the top two cards and add them to find the sum. The player with the larger number gets all four cards. If they are the same number both players turn over another set of cards and the larger sum takes all. The game is over when there are no more cards to turn over. Whoever has the most cards, wins. (Like "War" but with adding two cards.) **Extension**: Instead of adding the two numbers together, subtract the smaller from the larger to get the difference. The person with the smallest difference gets all four cards.

Close to 20 – Deal 5 cards to each player. Place them face up in front of you. Which three cards add up to be closest to 20? Ex. You turn over the following cards 5, 4, 10, ACE, and 3, and your opponent turns over an ACE, 8, 7, 2, and 3. You can make 19 with the 5, 4, and 10 and your opponent can make 18 with the 8, 7, and 3. You win because 19 is closer to 20**.**

Play a board game such as: Checkers, Memory, Chutes and Ladders, jigsaw puzzles, Parcheesi, Fish, Crazy Eights, Candy Land, Connect Four, Legos, K'Nex.

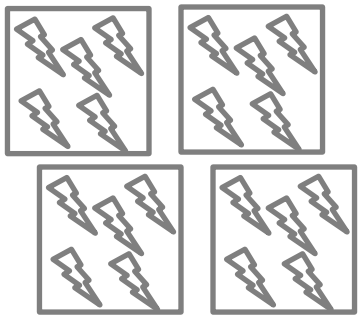
4. Complete one of the activity sheets provided at the end of this packet.

Name: _____

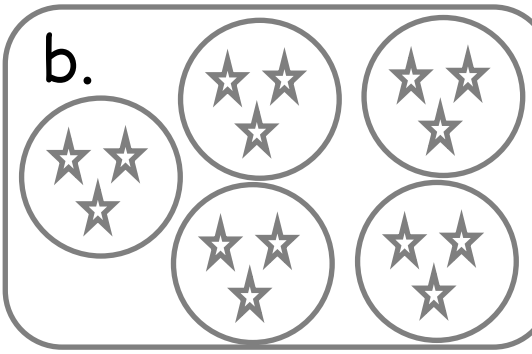
Multiplication Using Pictures

Directions: Match the picture with the correct problem.

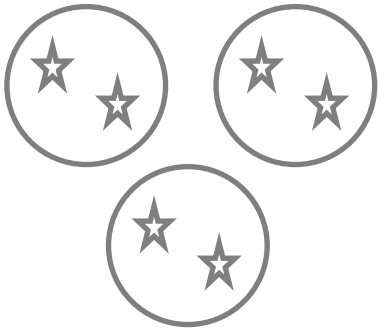
a.



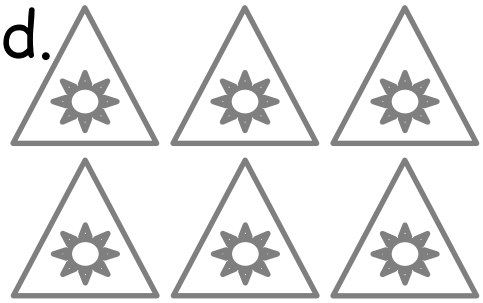
b.



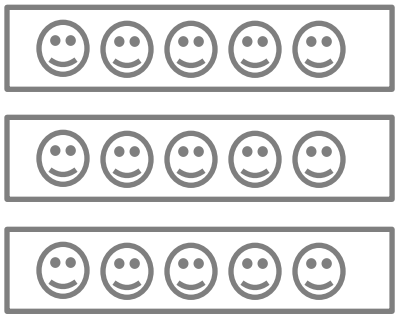
c.



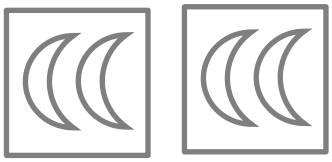
d.



e.



f.



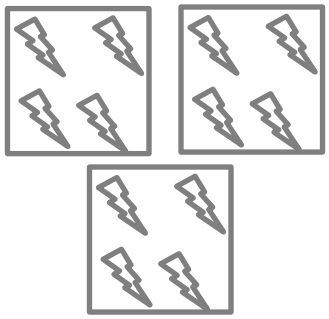
1. ____ 3 x 2
2. ____ 6 x 1
3. ____ 4 x 5
4. ____ 5 x 3
5. ____ 2 x 2
6. ____ 3 x 5

Name: _____

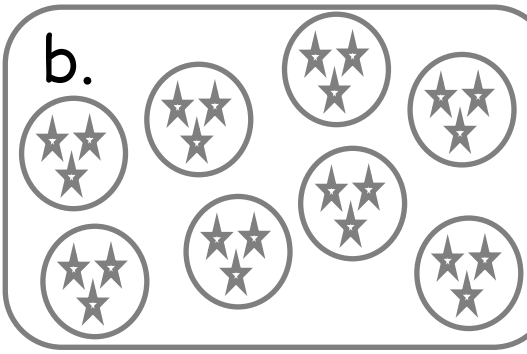
Division Using Pictures

Directions: Match the picture with the correct problem.

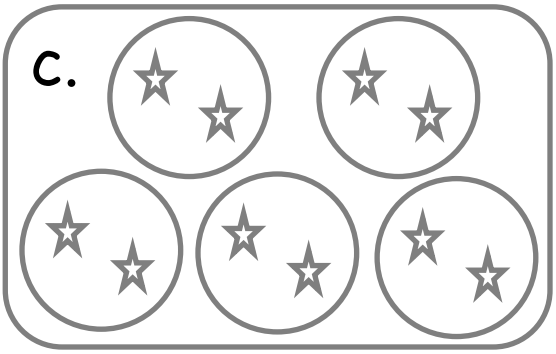
a.



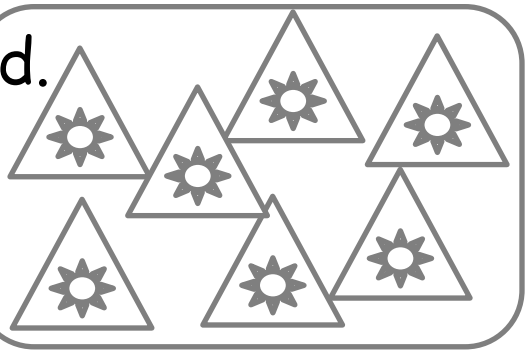
b.



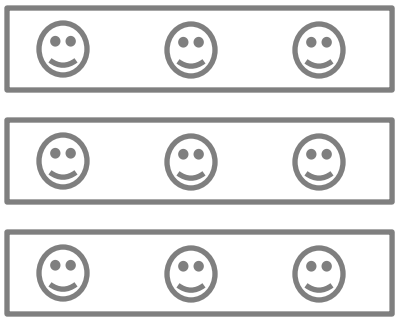
c.



d.



e.



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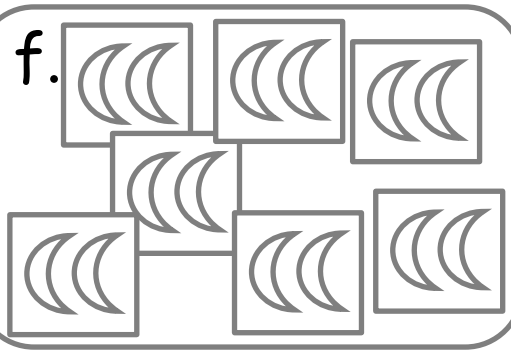
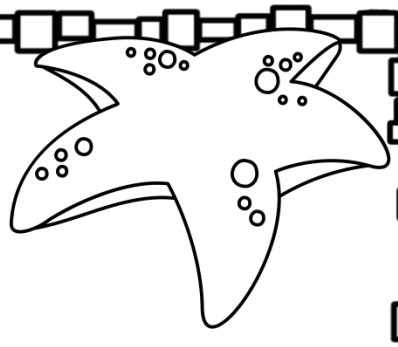


1. _____ 9 ÷ 3
2. _____ 14 ÷ 7
3. _____ 12 ÷ 3
4. _____ 7 ÷ 1
5. _____ 24 ÷ 8
6. _____ 10 ÷ 5

Name: _____

Missing Factors



3 x _____ = 9	9 x _____ = 36
_____ x 5 = 20	5 x _____ = 10
_____ x 2 = 8	10 x _____ = 100
7 x _____ = 42	_____ x 8 = 64
_____ x 4 = 36	4 x _____ = 28
6 x _____ = 48	_____ x 1 = 8
_____ x 7 = 56	_____ x 3 = 24

Name: _____

Multiplication & Division

Solving word problems.

Each package of water bottles has four rows. There are six bottles in each row. How many water bottles are in a package? Write a number sentence and draw a picture to show your thinking.

If there are eight packages of water bottles in a crate, what is the total of all the water bottles.

Name: _____

Multiplication & Division

Solving word problems.

Marcus has six apples. He cut each into 7 slices. How many slices does he have? Write a number sentence and draw a picture to show your thinking.

If Marcus had six more apples, but cut them into 8 slices each, how many total slices would he have then?

Name: _____

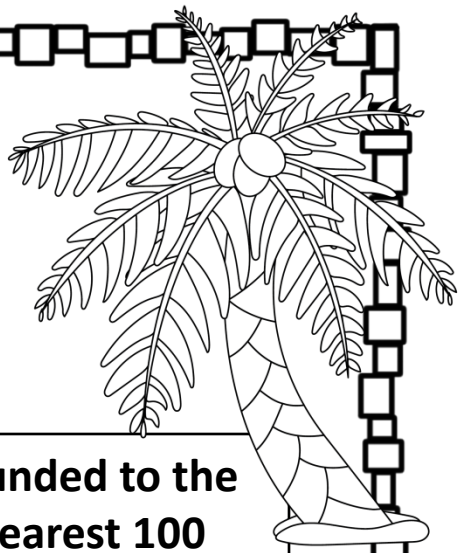
2 Step Word Problems

Amar bought a new hat for $19 and a game for $16. How much did the items cost? Amar had two $20 bills. How much change did he receive?

My mom bought 5 pizzas. They cost $9 each. She had $50. How much change did she receive?

Name: _____

Rounding Numbers



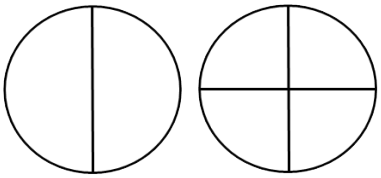
Directions: Round each number to the nearest 10 and then the nearest 100.

	rounded to the nearest 10	rounded to the nearest 100
317		
723		
655		
208		
939		
146		
572		
864		
481		

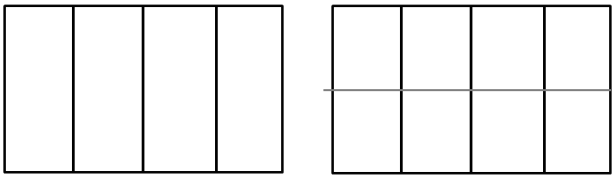
Name: _____

Equivalent Fractions

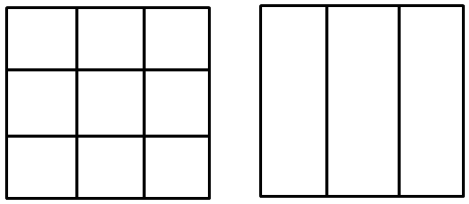
Directions: Color the shapes to show the equivalent fractions.



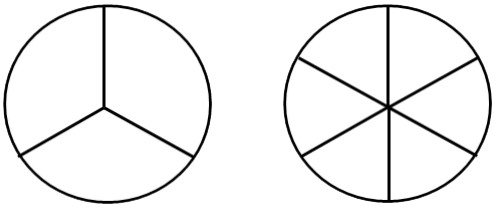
$\frac{1}{2} = \frac{2}{4}$



$\frac{3}{4} = \frac{6}{8}$



$\frac{6}{9} = \frac{2}{3}$

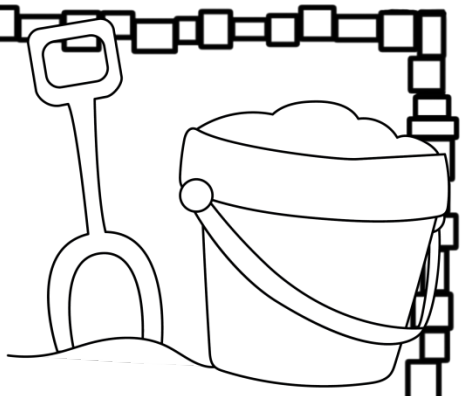


$\frac{1}{3} = \frac{2}{6}$

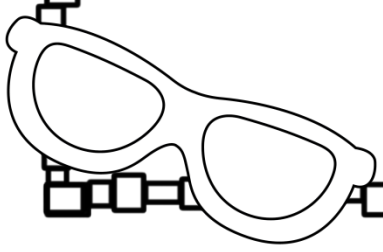
Divide the shapes to show that $\frac{1}{4} = \frac{2}{8}$

Name: _____

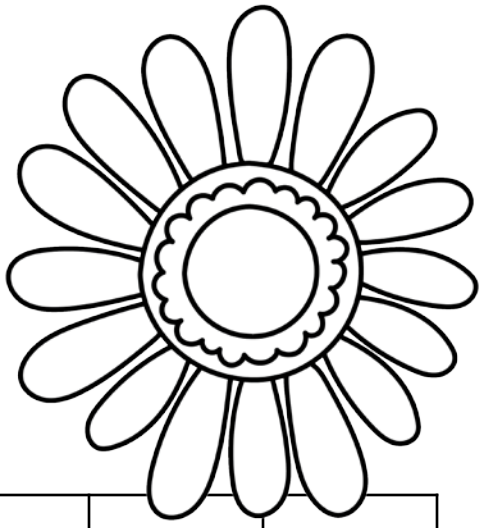
Addition & Subtraction within 1000



254 +326	683 -495	424 +509
700 -187	104 +758	930 -876
565 +275	808 -692	337 +486



Fact Hunt



Find at least 5 multiplication and 5 division facts below. Circle the fact and write in x or ÷ and an = sign.

5	5	25	6	9	54	7	10
2	9	3	3	7	7	49	2
2	9	72	9	8	35	7	5
4	18	3	6	6	24	8	3
42	6	7	8	4	6	7	42
4	5	6	30	24	8	4	32
4	3	12	4	4	16	9	4
9	7	63	6	42	7	6	3