4th grade moth Packet - may 1



Mathematics Grade 4 Remote Learning Activities



Day 1 Measuring in Centimeters (Source: mathlearningcenter.org) Please measure the following objects in centimeters and record the results.

Object to be N	1easured	Mos
1. Width of your bed		Measurement in Centimeters
2. Width of a door		
3. Height from the floor to the seat of your favorite chair		
4. Length of a telephone or cell phone		
5. Dimensions of your favorite book	Loretta and Pals	

Composite I	Numbers
-------------	---------

Use the digits 1 to 9, at most one time each, to make 5 composite numbers. (Source:



Alligators

Ten alligators went down to the river. Three of them laid eggs. They laid 5 eggs each. A snake ate 8 eggs. How many eggs are left?

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	Offic Green
Cor	mposite Numbers
	Use the digits 1 to 9, at most one time each, to make 5 composite numbers. (Source: https://www.openmiddle.com/)

Alligators

Ten alligators went down to the river. Three of them laid eggs. They laid 5 eggs each. A snake ate 8 eggs. How many eggs are left?

Visual Pattern (Source: visualpatterns.org)

Below is a pattern of footballs in stages 1-3 below. Draw what you think stage 4 might look like. Label how many footballs are in each stage.



Day 5 Multiplying by Multiples of Ten (Source: mathlearningcenter.org) Solve each problem below:

b
$$20 \times 16 =$$

d
$$40 \times 21 =$$

f
$$80 \times 15 =$$

Story Problem (Source: mathlearningcenter.org)

LaToya had a large collection of basketball cards. She decided to give half of them to her friend, Erin, and a fourth of them to her brother. She still has 75 cards left. How many cards did she start with?



Life Savers (Source: mathlearningcenter.org)

Did you know that there are 14 Life Saver candies in a roll of Life Savers? Fill in the blanks on the ratio table to show how many Life Savers there are in different numbers of rolls.

Number of Rolls	Number of Lifesavers
1 roll	14 Life Savers
3 rolls	TI LIIE Savers
	56 Life Savers
8 rolls	
	140 Life Savers





Mathematics Grade 4 Remote Learning Activities

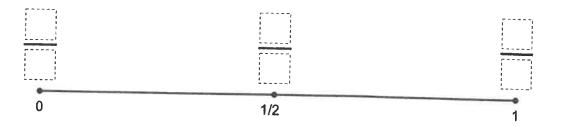
Day 1 Elapsed Time (Source: mathlearningcenter.org)

Solve problems A and B. You may want to use an open number line to model the problem.

- A. Anna started a race at 9:30 am. She ran for 3 hours and 47 minutes. What time did she finish her race?
- B. Michael and Tyler both ran a half marathon. Michael finished in 1 hour 42 minutes and 13 seconds. Tyler finished in 97 minutes and 49 seconds.
 - i. Who was faster?
 - ii. How much faster was he?
- C. Takumi ran the first mile of his race in 450 seconds. How many minutes was his first mile?

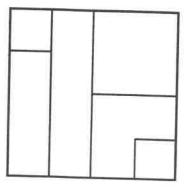
Benchmark Fractions (Source: https://www.openmiddle.com/)

Use the digits 1 to 9, no more than once, to create three fractions that are as close to zero, one half and one as possible. NOTE: Close as possible is measured by adding up all the differences and making it the least possible value.



Fraction Talk (Source: http://fractiontalks.com/)

What fraction of the big square is represented by each region? (Do all your fractions add up to one whole?)



Day 2 Perimeter and Area (Source: mathlearningcenter.org)

You can make sketches to help solve the problems below. Remember to include the units of measurement in your answers. Show all of your work.

- A. The classroom rug is 9 feet long and 8 feet wide. What is the total area of the rug? What is the perimeter of the rug?
- B. Chrissy is going to make a big painting on a piece of wood that is 4 feet wide and 7 feet long. What is the total area of the piece of wood? What is the perimeter of the piece of wood?
- C. The school playground measures 465 feet by 285 feet. What is the perimeter of the playground?

Puzzle (Source: https://www.solvemoji.com/)

What is the value of the last row?

Noticing (Source: https://samedifferentimages.wordpress.com/)

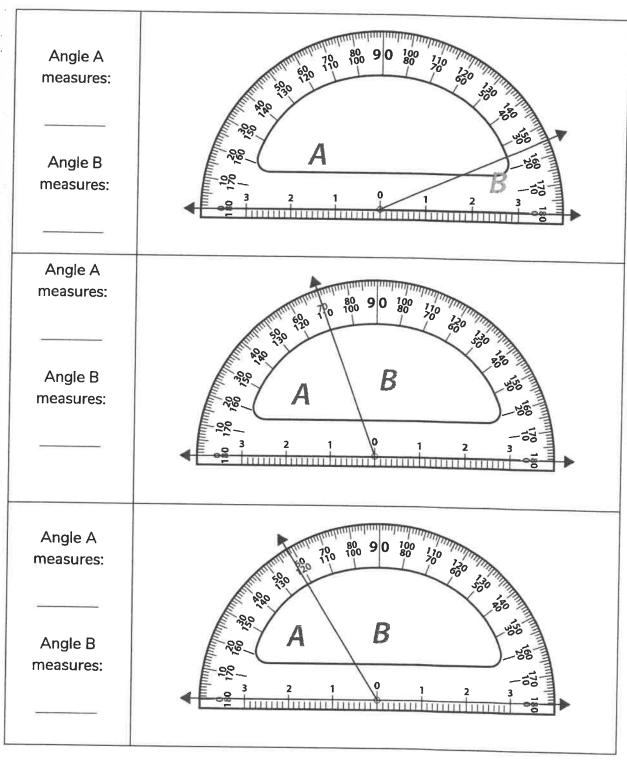
On a piece of paper, make two columns. In one column, list the things that are the same in this picture, and in the other column, list the things that are different.

What is the same? What is different?



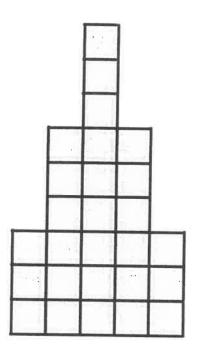
Day 3 Protractors (Source: mathlearningcenter.org)

When you measure an angle you usually have to choose between two numbers because protractors are designed to measure angles that start on either the right or left side. There are two angles to measure in each of the problems. The angle on the left side is angle A. The angle on the right side is angle B. Find and record the measure of both angles in each problem.



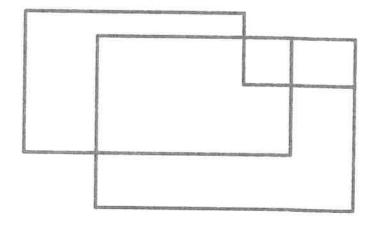
Counting (Source: visualpatterns.org)

How many squares do you see? How did you count them?



Tracing a Figure (Source: https://brilliant.org/)

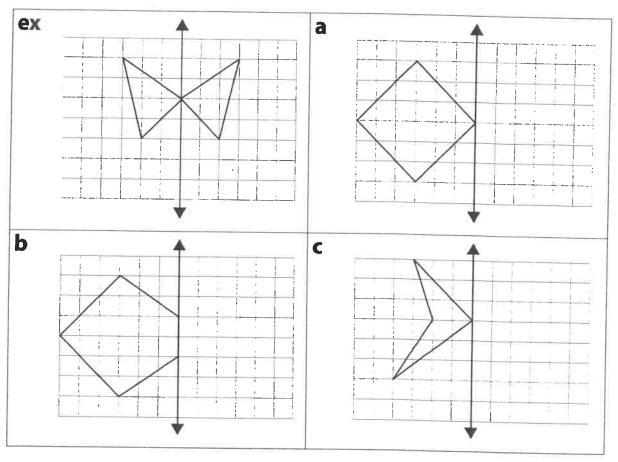
Starting with your pencil at a location of your choice on the two dimensional figure, is it possible to trace this entire figure without lifting your pencil or redrawing a line? (Crossing at an intersection is okay.)



Day 4 Symmetry (Source: mathlearningcenter.org)

Figures a-c show only half of the designs, on the left side of their lines of symmetry.

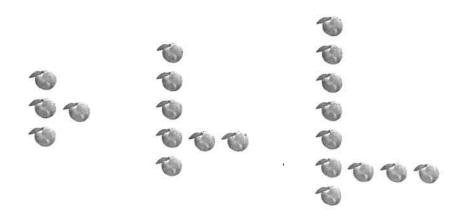
Complete each design on the right side of the line of symmetry.



What did you do to make sure that the other half of each design you drew was accurate?

Visual Pattern (Source: visualpatterns.org)

Below is a pattern of peaches in steps 1-3 below. Draw what you think step 4 might look like. Label how many peaches are in each step.



Comparing Fractions (Source: https://www.openmiddle.com/)

Use the digits 1 to 9, at most one time each, to fill in the boxes to create two different fractions: one that is less than one half and one that is more than one half.

$$\frac{1}{2}$$
 and $\frac{1}{2}$ $> \frac{1}{2}$

Day 5 Conrad's Room (Source: mathlearningcenter.org)

Think about the most efficient strategy for each problem. Then show your work using numbers, labeled sketches, or words.

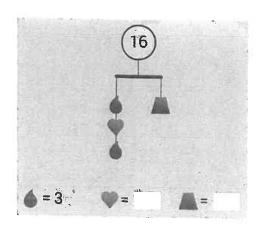
- A. Conrad is cleaning his room. His bookcase has 7 shelves. He put 18 books on each shelf. How many books did Conrad put away?
- B. Conrad's dresser has 6 drawers. He put 13 pieces of clothing in each drawer. How many pieces of clothing did he put away?
- C. Conrad has 11 containers for his toys. He put 17 toys in each container. How many toys did he put away?

Fractions (Source: mathlearningcenter.org)

Fill in the blanks.

A. ½ of 24 is	B. ½ of 24 is	C. \(\frac{1}{8}\) of 24 is
D. \(\frac{1}{3}\) of 24 is	E. \frac{1}{6} of 24 is	F. $\frac{1}{12}$ of 24 is

Mobile (Source: https://solveme.edc.org/Mobiles.html)
What is the value of the heart? The trapezoid?



COMPARING FRACTIONS:

There are many possible answers including 1/4 and 8/9

Other answers you may not expect would be improper fractions that are greater than 1/2 such as 5/2.

Day 5 Conrad's Room:

A. $7 \times 18 = 126$ books

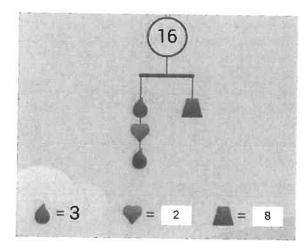
B. $6 \times 13 = 78$ pieces of clothing

C. $11 \times 17 = 187$ toy

Fractions:

A. 12 B. 6 C. 3 D. 8 E. 4 F.2

Mobile



WEEK 3

Day 1

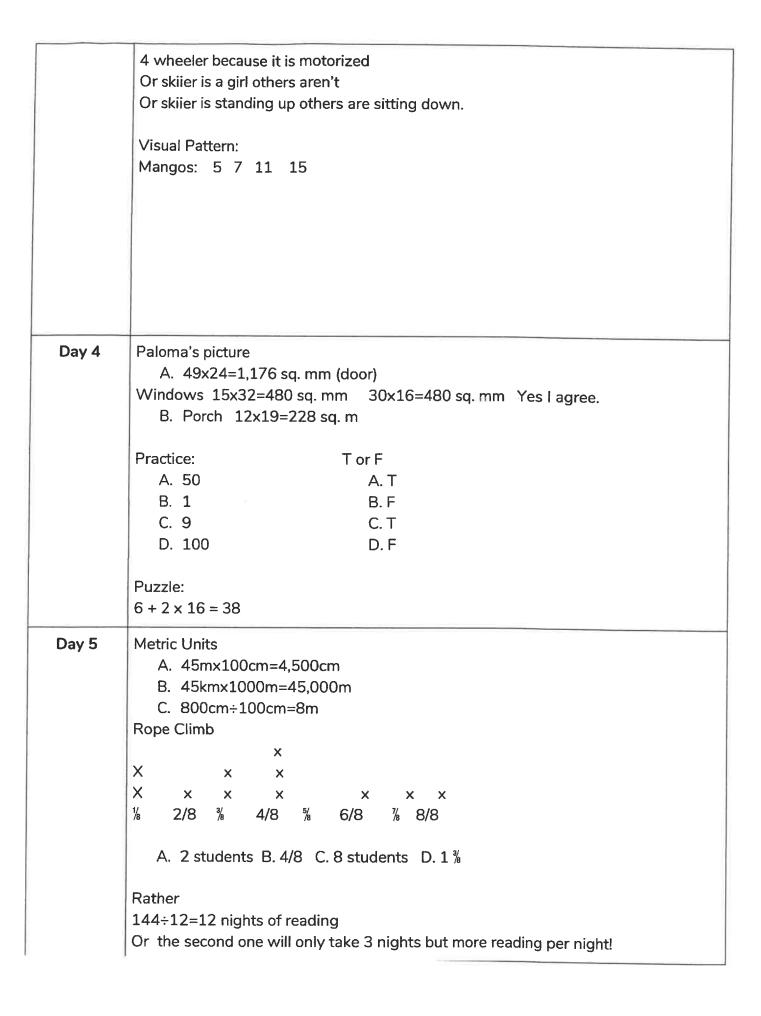
Parallel: Lines that never cross. (like railroad tracks)

Perpendicular:

-	Right Angle: 90°
	Obtuse Angle: larger Than 90° BIB, FAT Angle Acute Angle:
	Oh! It's such a cute little angle! Less than 90° Finding perimeter: (2x3)+(2x8)=22 ft
	The Whiteboard's length
	Multiplying 2 digit numbers: One answer: 98x61=6,950
Day 2	8ft. X 6 ft. Area 8x6=48 sq. ft. Perimeter (2x6)+(2x8)= 28 ft or 6+6+8+8=28 ft.
	Solve the puzzle: Yellow? = 3 Circle above 5=8
	Counting: 1 total hexagon OR 1hexagon, 2 triangles and 8 diamonds.
Day 3	Fraction Talk: Answers will vary.
	Which one doesn't belong? (possible answers but kids come up with better ones) N because it is not symmetrical Or U because it is curved and the others aren't.
	Visual Pattern: 6 apples 9 apples 12 apples Their drawing should follow the pattern and have 15 apples.

Day 4	Row and Diagonals:													
	ex						а							b
				35					56					0
	8	6	1	48		1	6	7	42		7	3	0	0
	3	5	3	45		4	2	4	32		4	2	9	72
	7	4	2	56		4	1	9	36		5	3	3	45
				80					18					42
Day 5	Puzzle: 2 x 6 + 12 = 24 Perimeter and Area a. Area 1,862 b. Area					r. 348 d to fig the an e out 1 34-46 -87+8	gure of rea th the m i=38 t 34=43 (2)=30 ney ca	out w at is issing that is 4	Per. hat th missin g num s the ri	g 46x38= bers and t ght hand ntally or v	then a	8 dd all Then	the s add a	ides. Il of

			V	VEEK 4		
Day 1						
	wt	cans	wt	cans		
	4	1	10	2 1/2		
	5	1 1/4	11	2 3/4		
	6	1 1/2	12	3		
	7	1 3/4	13	3 1/4		
	8	2	14	3 1/2		
	9	2 1/4	15	3 3/4		
A. Tina got \$14.15 B. Her three little brothers each got \$3.05 (\$14.15-\$5.00=\$9.15) \$9.15÷3=\$3.05 Puzzle: Yellow ?=3					\$14.15-\$5.00=\$9.15)	
	Number	above 5 is 8				
	Counting 3 green triangles and 6 trapezoids Or 4 triangles					
Day 3	Walking Answers	Home will vary, but I	'm sure v	ou can do it if w		



4th grade math Answer Key.

We're crowdsourcing the answers to the K-8 Remote Learning Activities. Please help.



Mathematics Grade 4 Remote Learning Activities

ANSWER KEY

	WEEK 1
Day 1	Measuring in Centimeters: Answers will vary
	Composite Numbers:
	There are many answers but here are a few:
	8, 35, 96, 74, 12
	4, 21, 69, 78, 35
	9, 32, 85, 76, 14
	4, 21, 36, 95, 78
	Alligators: There are 7 eggs left.
Day 2	Stacking Shapes:
	Rectangular prism - will stack, won't roll
	Cube - will stack, won't roll
	Pyramid - will only stack if on top, won't roll
	Sphere - won't stack, will roll
	Cylinder - will stack, will roll
	Cone - will only stack if on top, will roll
	Pig Game: N/A
	Noticing:
	Answers will vary
Day 3	Prime Numbers:
	There are many answers but here are a few:
	5, 23, 41, 89, 67
	5, 83, 61, 29, 47
	2, 41, 53, 67, 89
	5, 29, 41, 83, 67
	Multiplication Strategies:

10 <u>X 3</u>	20 <u>X 3</u> B0	30 <u>X 3</u>	X 3 120	50 X 3 150	60 <u>X 3</u> 180	70 <u>X 3</u> 210
80 240	90 X 3 270	100 X 3 300	1,000 <u>X_3</u> 3,000	10,000 <u>X 3</u> 30,000	X 3 300,000	1,000,000 <u>X 3</u> 3,000,000

Which One Doesn't Belong?

- "3+9" does not belong because all the other equations equal 10 and 3+9=12.
- " 5+5" does not belong because it is adding the same numbers.

5+5	2+8
9+1	3+9

Day 4 Ratio Table: ...

1	2	20	15	30,	10	5	50
31	62	620	93	930	310	155	1550

Mountain Ranges: There are 3 that are 4 units wide.

footballs

Visual Pattern:



Multiplying by Multiples of Ten: Day 5

a. 32

- b. 320
- c. 84

d. 840

- e. 120
- f. 1,200



Story Problem:

She started with 300 cards.

X = total amount of cards LaToya started with

$$X - (\frac{1}{2}) X - (\frac{1}{4}) X = 75$$

$$X - (\frac{3}{4})X = 75$$

$$(\frac{1}{4})X = 75$$

 $X = 75 \times 4$ X = 300

Life Savers:

Number of Rolls	Number of Lifesavers		
1 roll	14 Life Savers		
3 rolls	42 Life Savers		
4 rolls	56 Life Savers		
8 rolls	112 Life Savers		
10 rolls	140 Life Savers		

WEEK 2

Day 1 Elapsed Time:

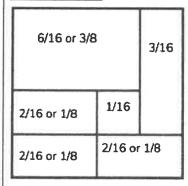
- A. 1:17
- B. Tyler, 5 minutes faster
- C. Tamuki 7.5 minutes

Benchmark Fractions:

There are multiple solutions

One possible answer: 1/7, 3/6, 8/9

Fraction Talk:

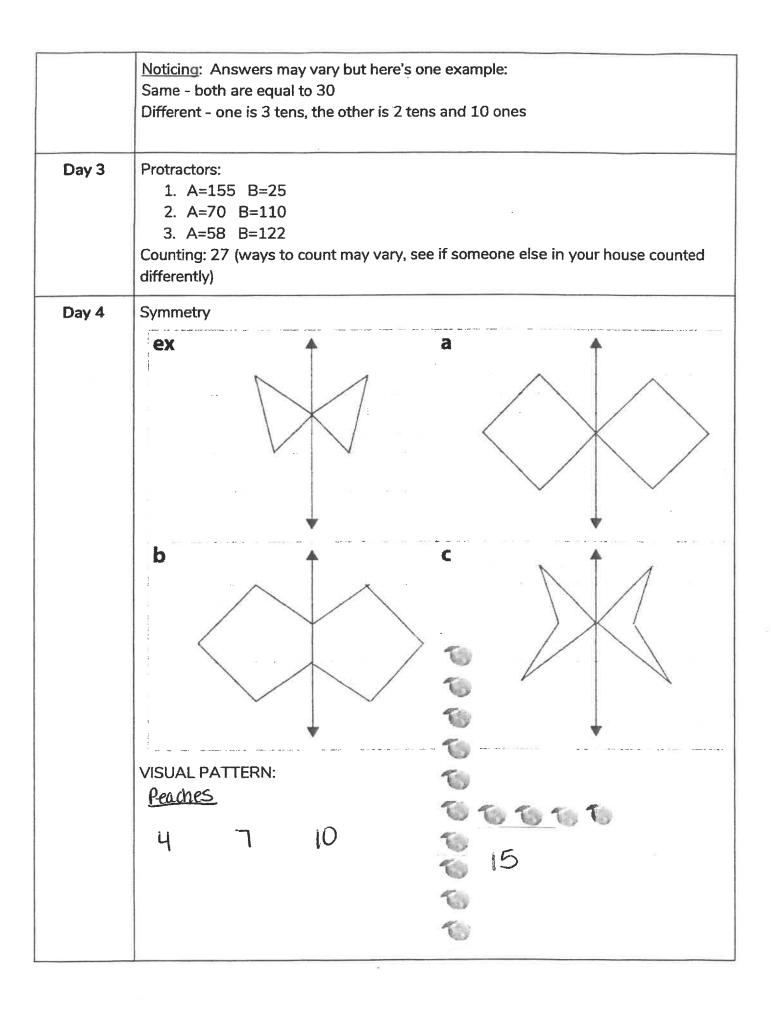


Day 2

Perimeter and Area:

- A. 72 and 34
- B. 28 and 22
- C. 1,500

Puzzle: 25



COMPARING FRACTIONS:

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Day 5

Conrad's Room:

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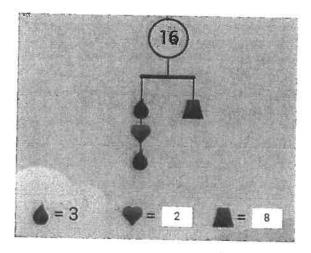
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Mobile



Day 1

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Perpendicular: