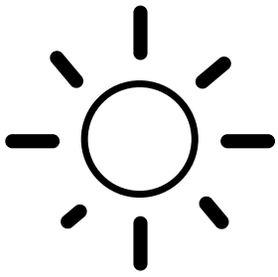


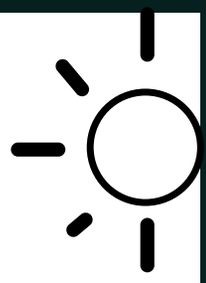
SUMMER

MATH PACKET

4th Grade Fun

www.mathfactfluencyplayground.com

Table of Contents
4th Grade



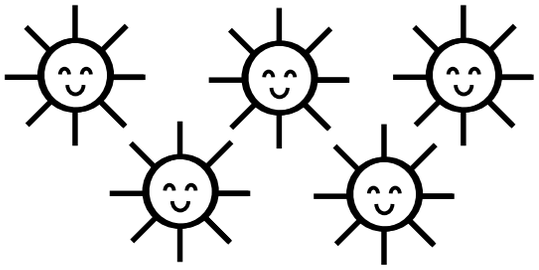
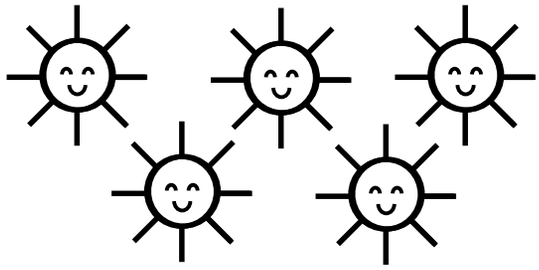
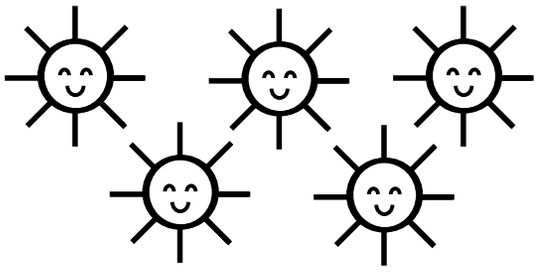
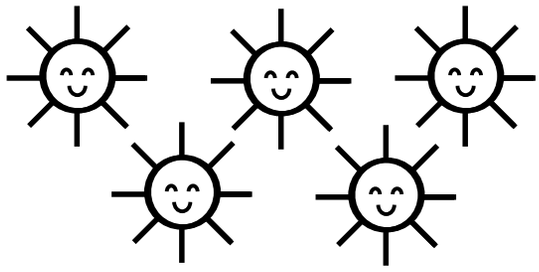
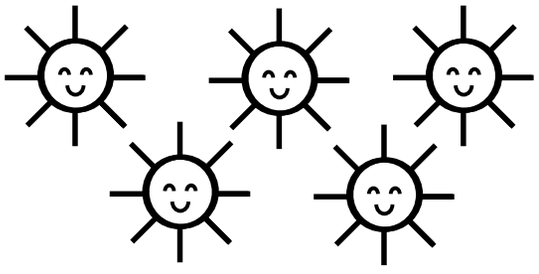
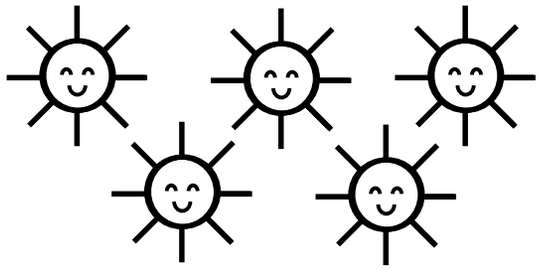
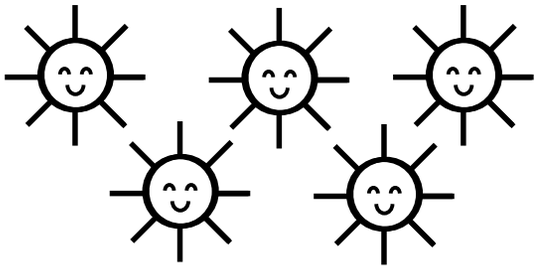
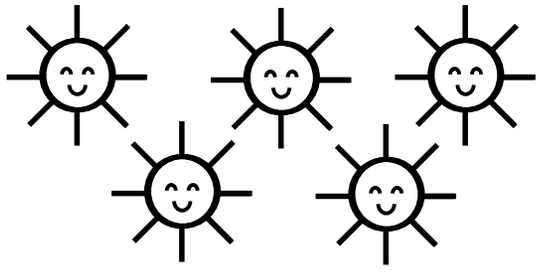
THIS SUMMER PACKET BELONGS TO:

_____

(NAME)

KEEP TRACK OF YOUR SUMMER WORK

As you complete each activity, color a sun!

WEEK 1	WEEK 2
	
WEEK 3	**WEEK 4**
	
WEEK 5	**WEEK 6**
	
WEEK 7	**WEEK 8**
	

WEEK 1

HOW TO PLAY ROCK, PAPER AND SCISSORS.

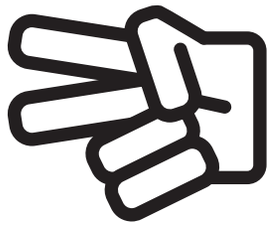
This game is (also known as Roshambo). It is a fun and easy way to start a game.
Players say "Rock, paper, scissors." Each player throws a rock, paper or scissors.

- Rock beats scissors,
- scissors beat paper,
- paper beats rock.

scissors

rock

paper



scissors

rock

paper

Multiplication Tic Tac Toe

Multiply by 11

11×4	11×5	11×7
11×8	11×9	11×3
11×2	11×10	11×6

11×8	11×9	11×6
11×1	11×10	11×2
11×3	11×4	11×7

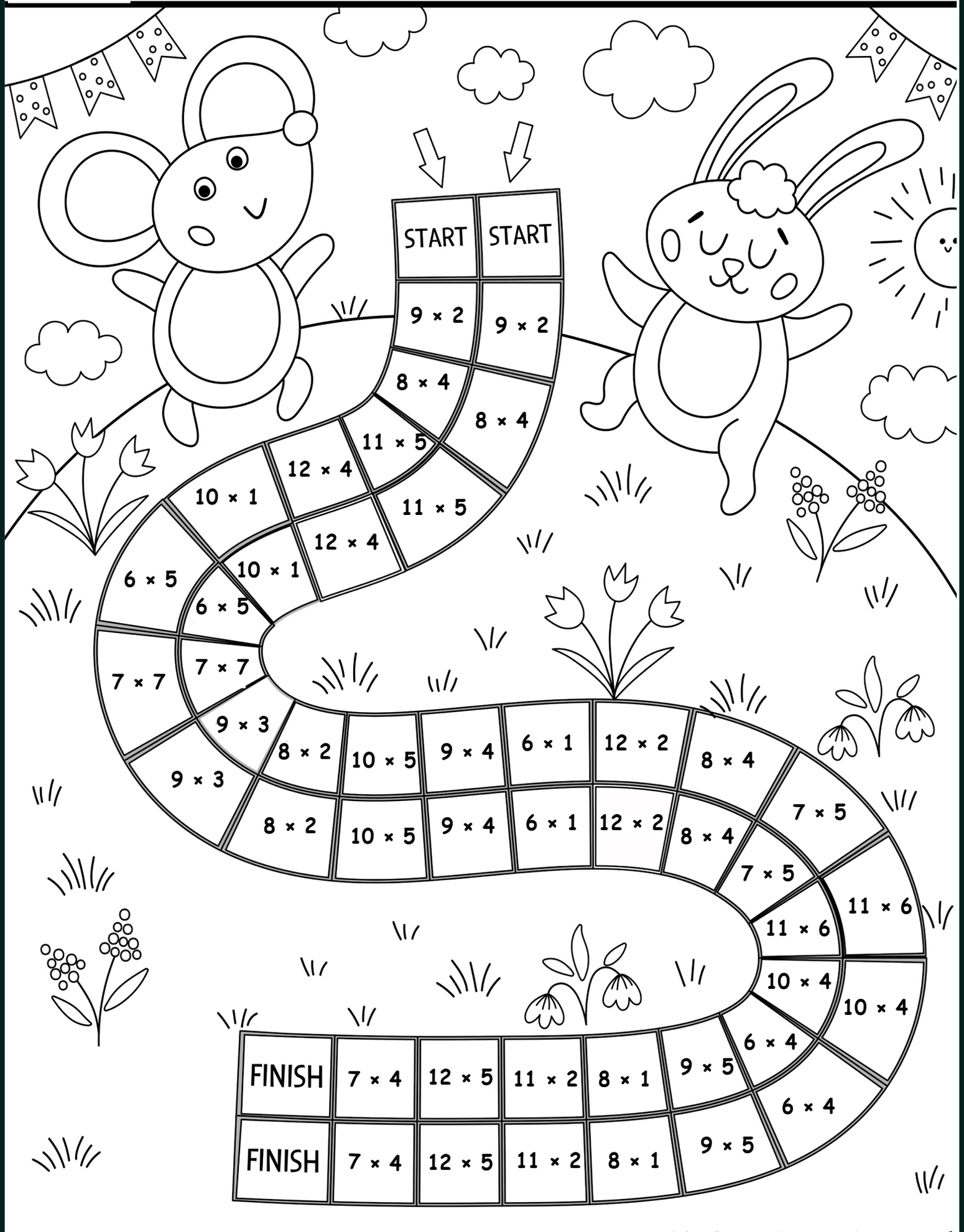
11×3	11×6	11×2
11×4	11×1	11×7
11×5	11×9	11×8

11×9	11×2	11×5
11×6	11×7	11×8
11×3	11×10	11×4

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

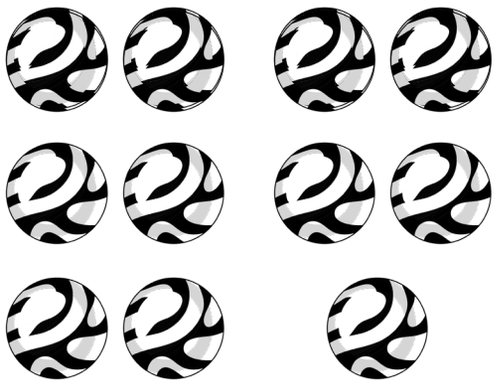
MULTIPLICATION BOARD GAME

Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!



VISUALIZING REMAINDERS

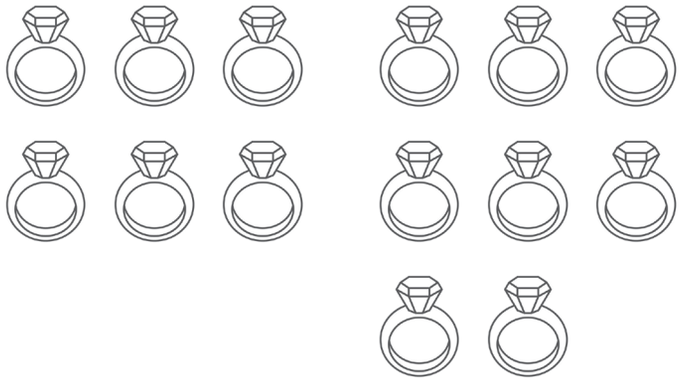
Jamal had 11 marbles. He put 2 in a box. How many boxes did he use? How many did he have left over?



ANSWER:

_____

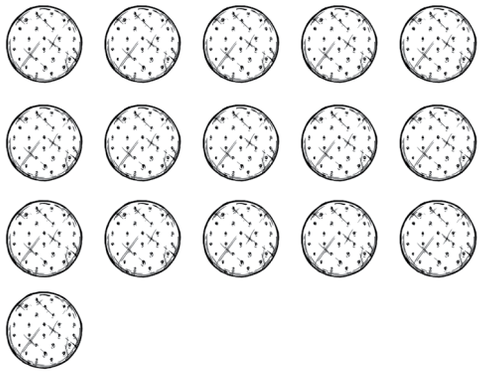
Luisa had 14 rings. She put 3 in a box. How many boxes did she need if she put all the rings in a box?



ANSWER:

_____

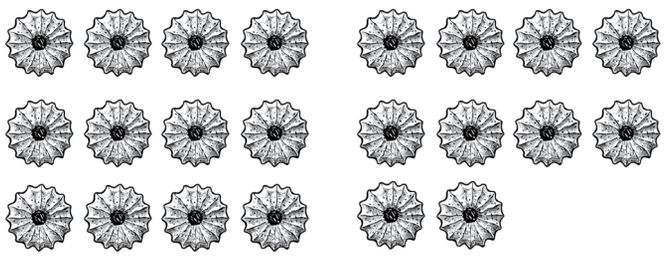
The bakery made 16 cookies. They put 5 in a box. How many boxes did they use? Did they have any left over?



ANSWER:

_____

The bakery made 22 cookies. They put 4 in a box. How many boxes did they use? Did they have any left over?



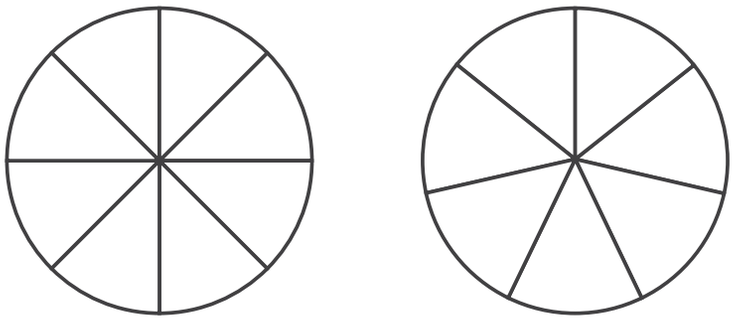
ANSWER:

_____

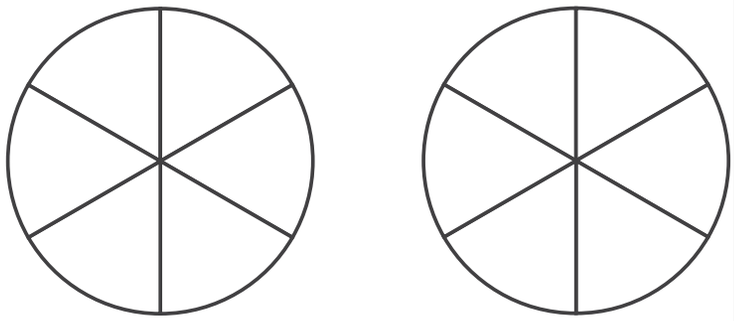
COLOR AND COMPARE

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

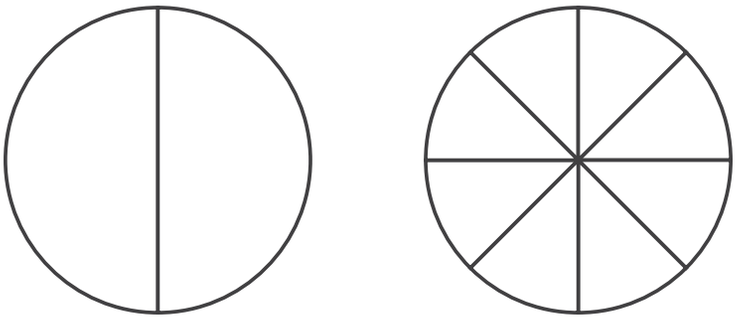
<, > , =



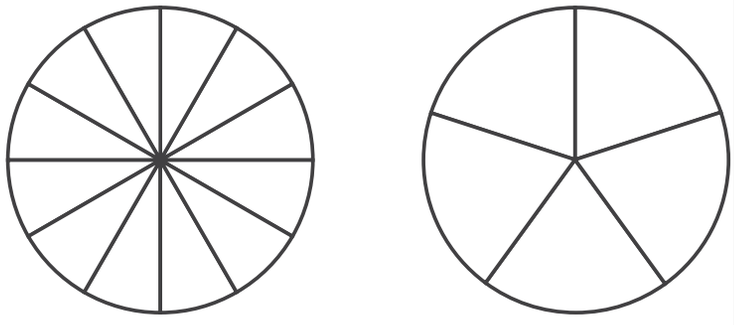
$\frac{3}{8} \quad \square \quad \frac{5}{7}$



$\frac{4}{6} \quad \square \quad \frac{3}{6}$



$\frac{1}{2} \quad \square \quad \frac{6}{8}$

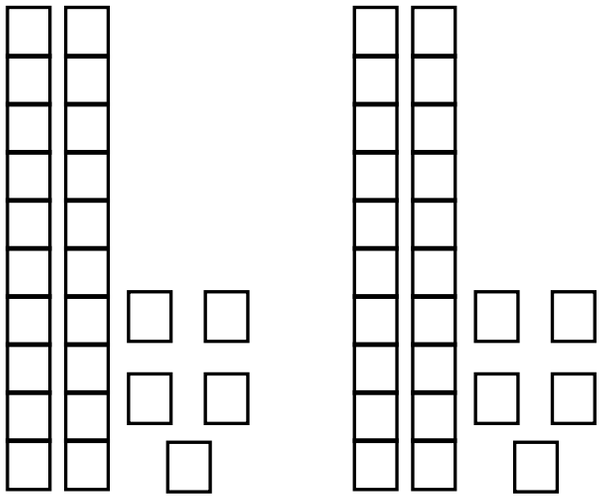


$\frac{6}{12} \quad \square \quad \frac{3}{5}$

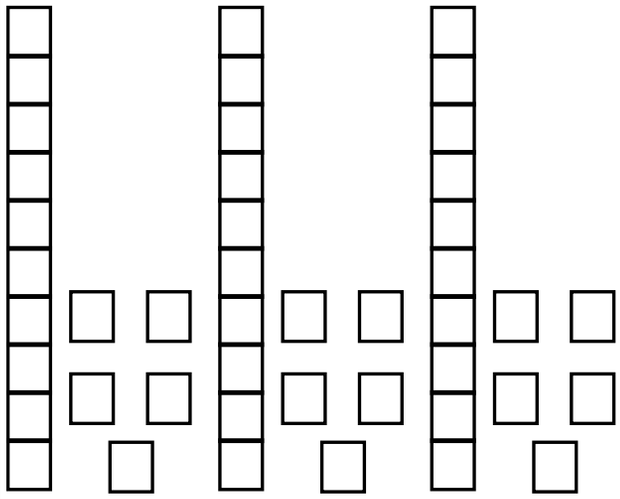
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

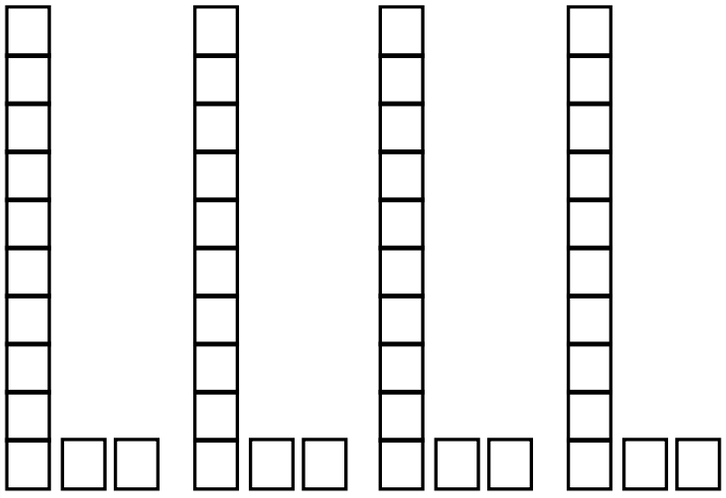
2 x 25 = ___



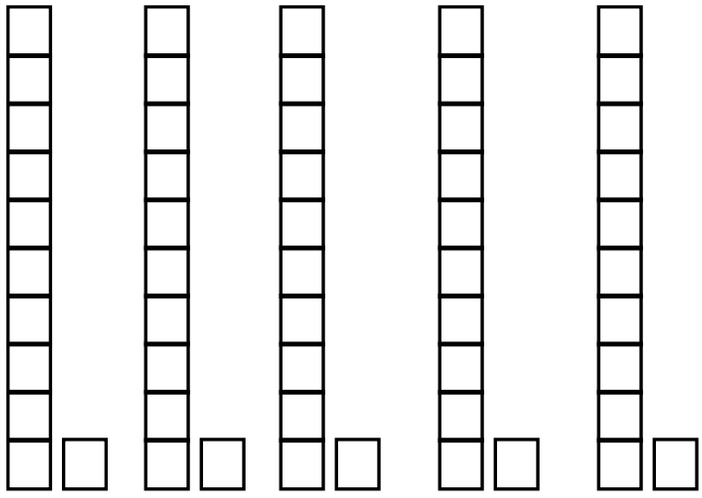
3 x 15 = ___



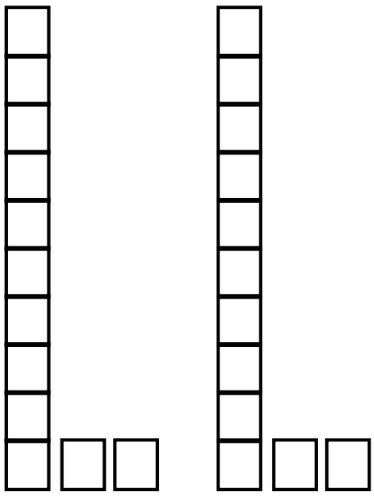
4 x 12 = ___



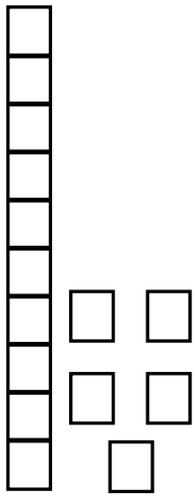
5 x 11 = ___



2 x 12 = ___



1 x 15 = ___



WEEK 2

Multiplication Tic Tac Toe

Multiply by 12

12×1	12×3	12×4
12×5	12×2	12×9
12×6	12×8	12×7

12×5	12×6	12×3
12×8	12×1	12×7
12×2	12×10	12×4

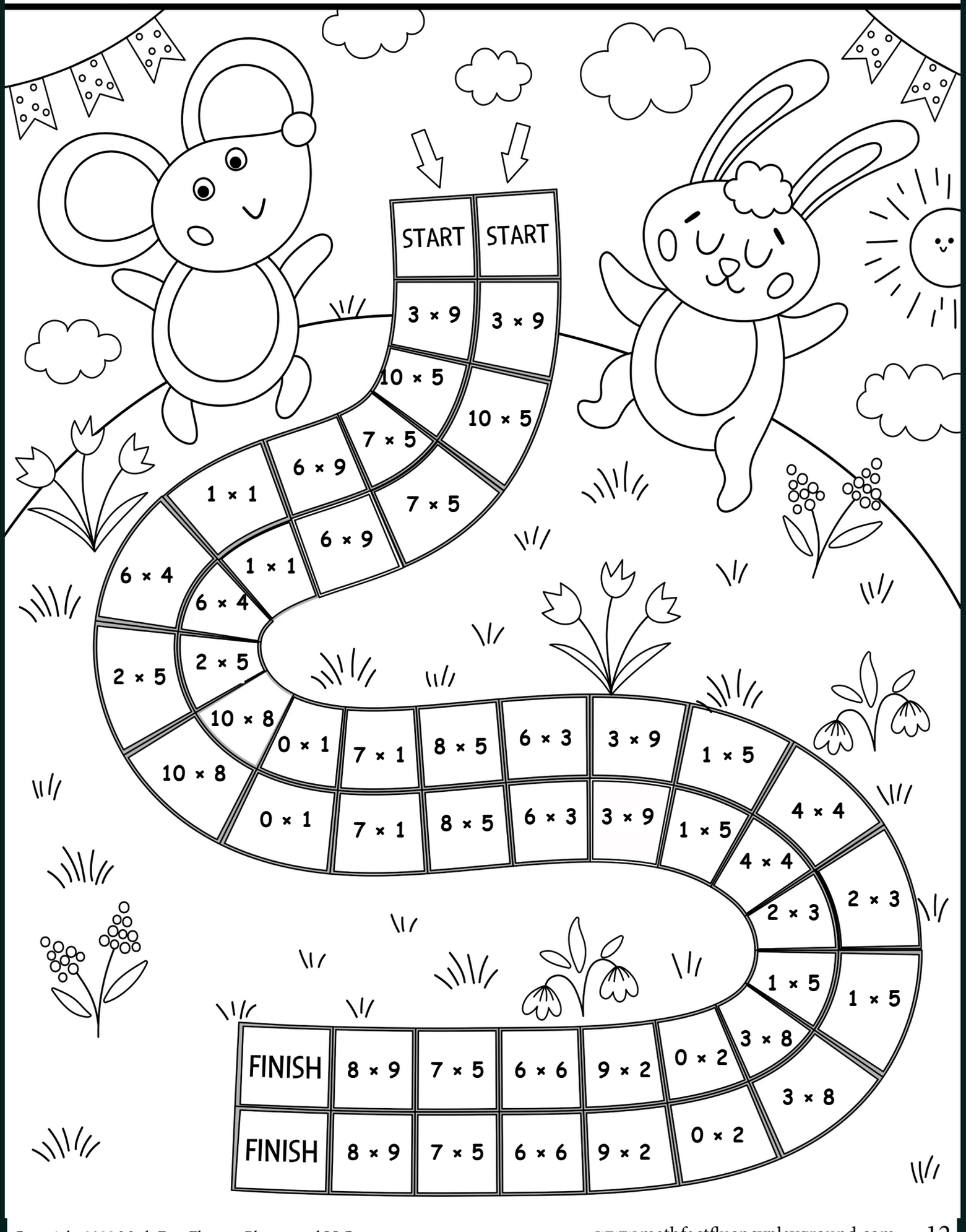
12×3	12×9	12×1
12×4	12×10	12×2
12×7	12×6	12×5

12×4	12×7	12×5
12×2	12×4	12×3
12×10	12×1	12×9

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

MULTIPLICATION BOARD GAME

Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!

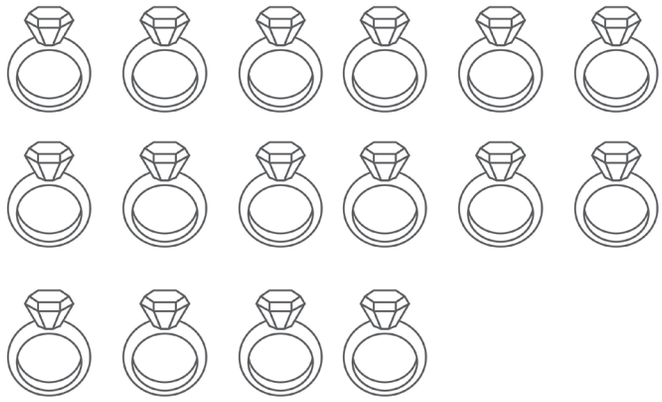


VISUALIZING REMAINDERS

Hong had 9 marbles. He put 7 in a box. How many boxes did he use?How many marbles did he have left over?

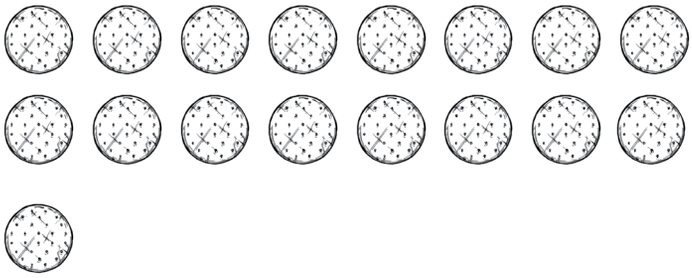
ANSWER:

Maribel had 16 rings. She put 6 in a box. How many boxes did she use? How many did she have left over?



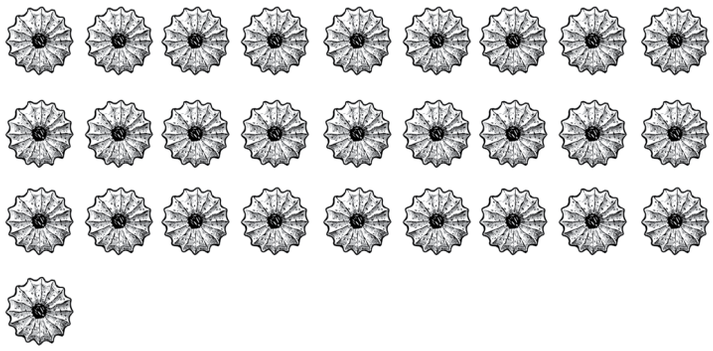
ANSWER:

The bakery made 17 cookies. They put 8 in a box. How many boxes did they use? Did they have any cookies left over?



ANSWER:

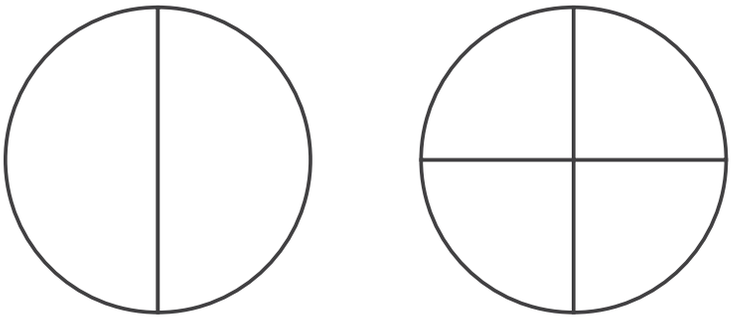
The bakery made 28 cookies. They put 9 in a box. How many boxes did they use? Did they have any cookies left over?



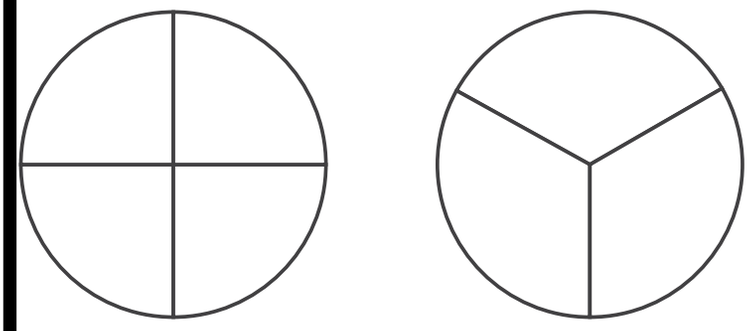
ANSWER:

COLOR AND COMPARE

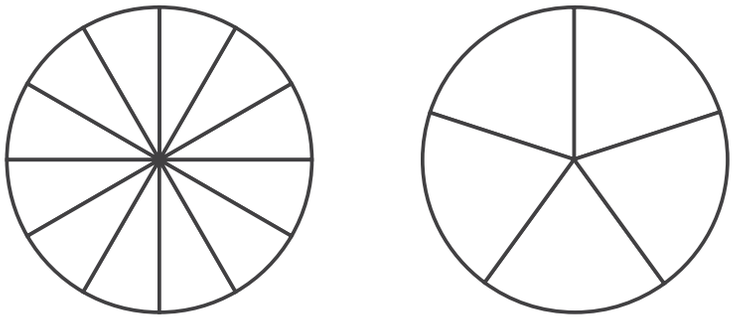
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.



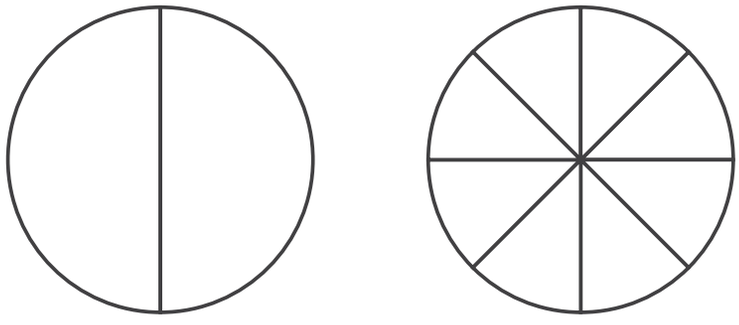
$\frac{1}{2} \square \frac{1}{4}$



$\frac{3}{4} \square \frac{1}{3}$



$\frac{6}{12} \square \frac{3}{5}$

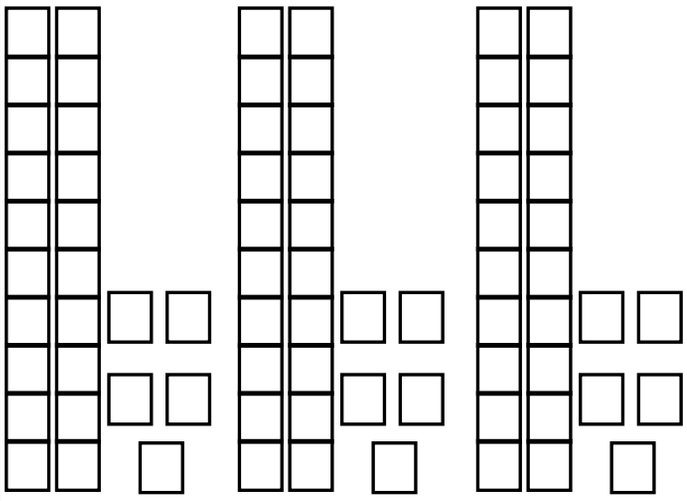


$\frac{1}{2} \square \frac{6}{8}$

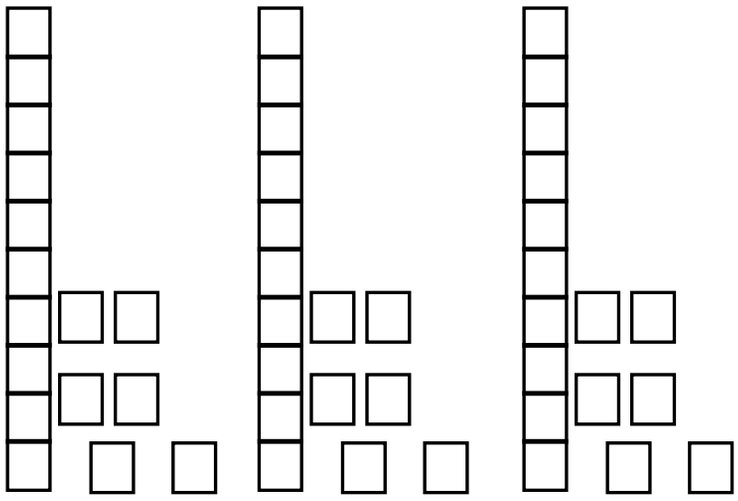
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

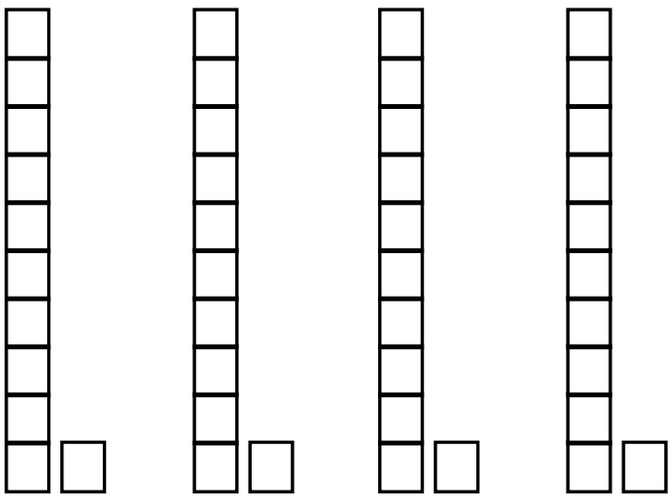
3 x 25 = ___



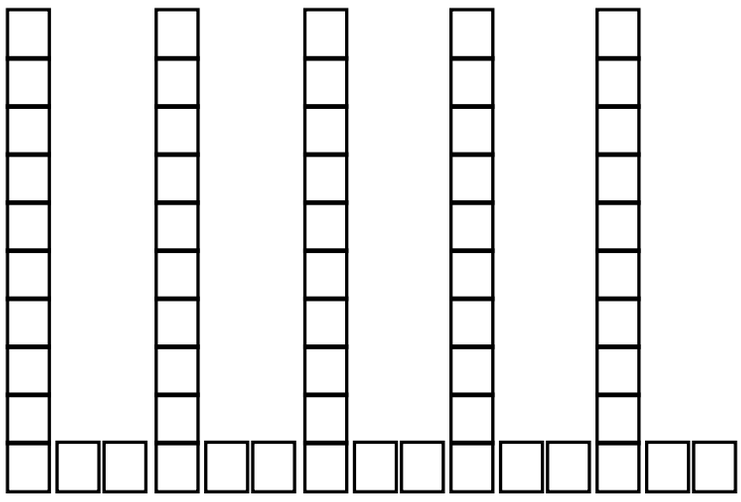
3 x 16 = ___



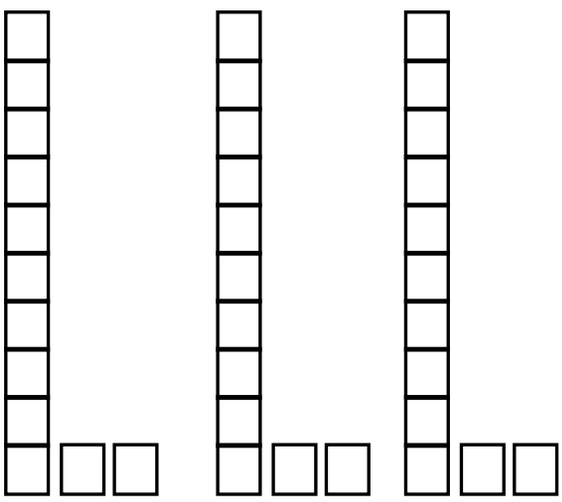
4 x 11 = ___



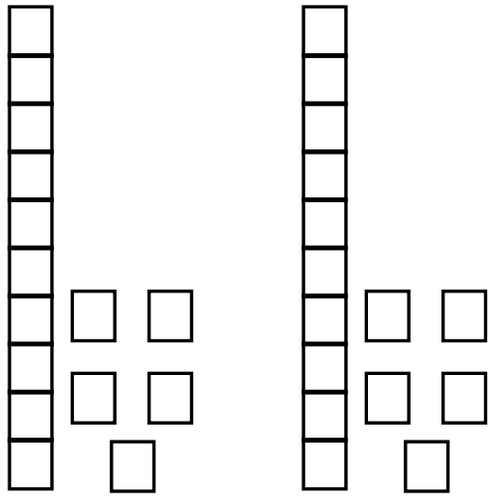
5 x 12 = ___



3 x 12 = ___



2 x 15 = ___



WEEK 3

Multiplication Tic Tac Toe

Multiply by 7

7×5	7×7	7×9
7×1	7×4	7×6
7×8	7×2	7×3

7×10	7×4	7×1
7×8	7×2	7×3
7×9	7×5	7×7

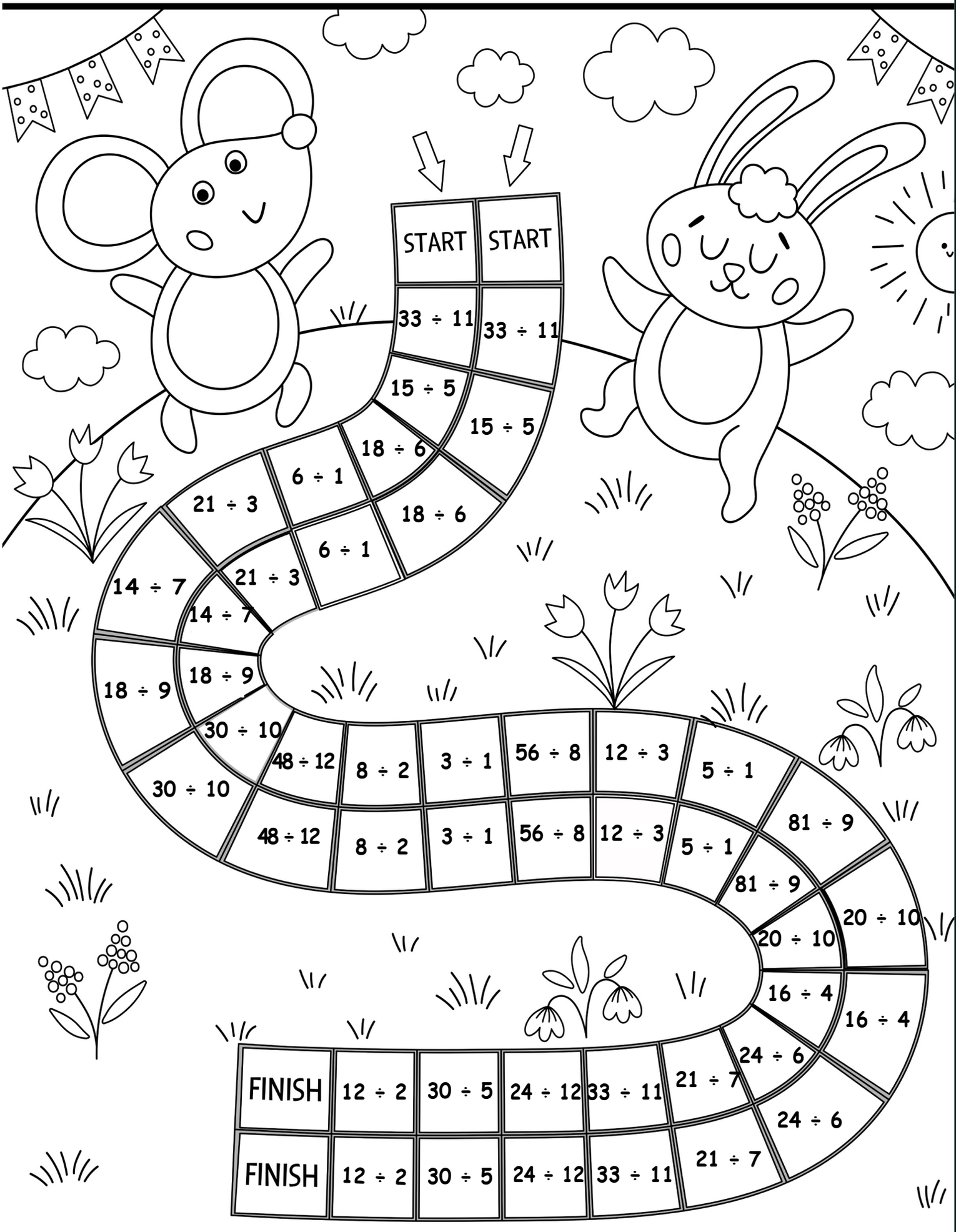
7×5	7×9	7×3
7×10	7×7	7×2
7×6	7×8	7×1

7×2	7×3	7×1
7×9	7×5	7×7
7×10	7×4	7×6

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

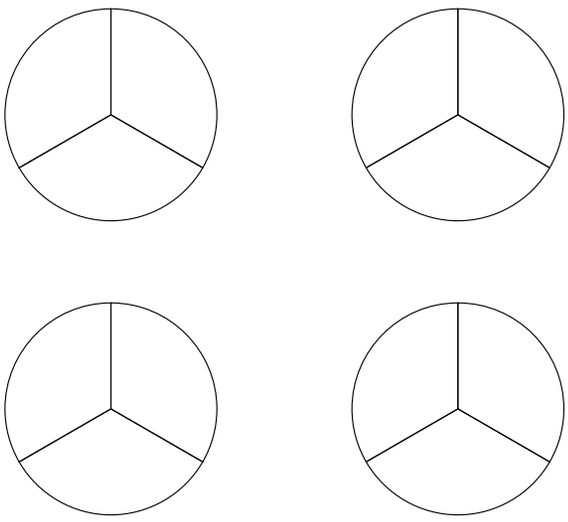
DIVISION BOARD GAME

Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!

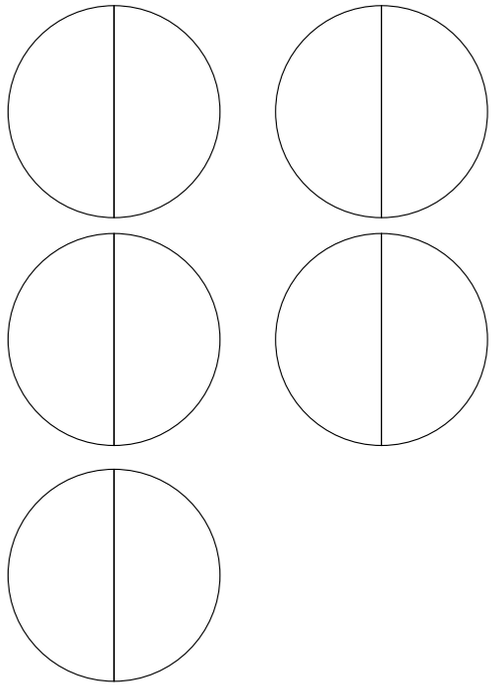


VISUALIZING MULTIPLICATION OF FRACTIONS COLOR AND SOLVE

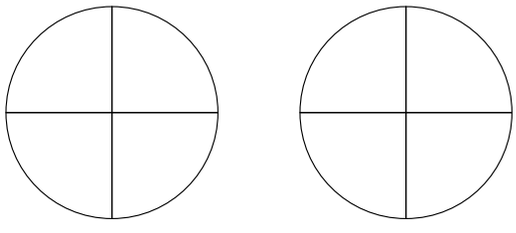
$4 \times \frac{1}{3}$



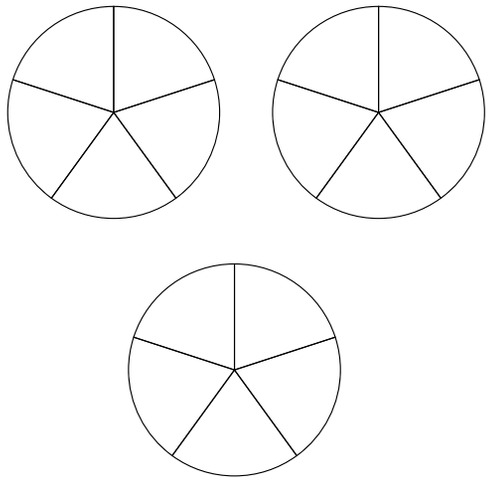
$5 \times \frac{1}{2}$



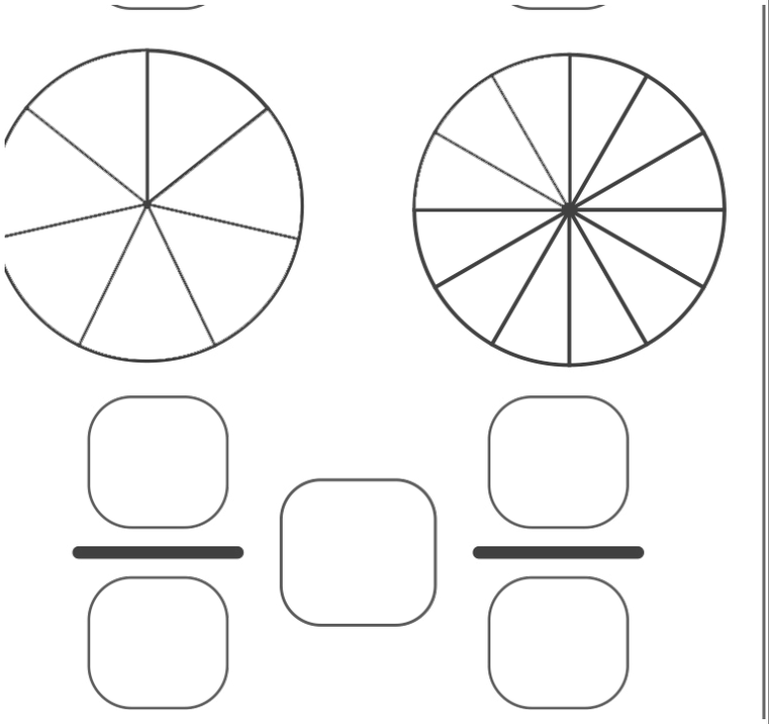
$2 \times \frac{1}{4}$

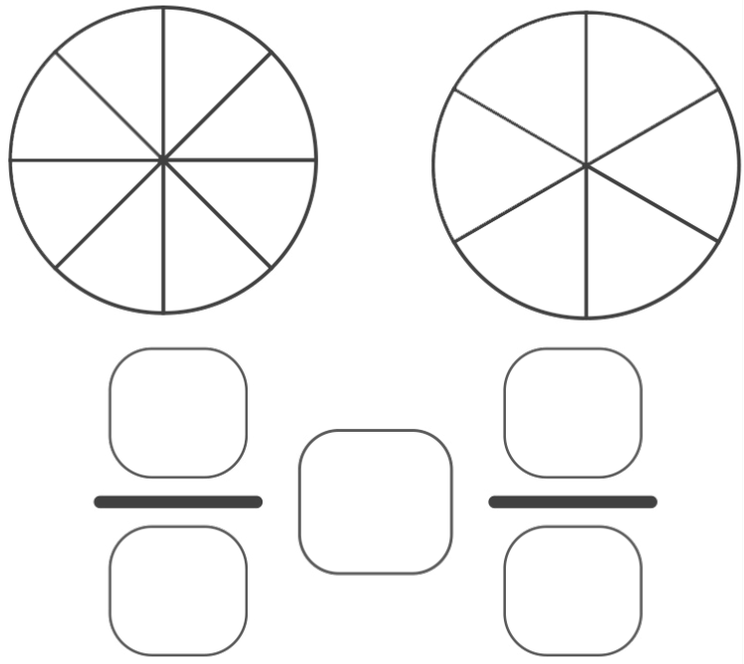


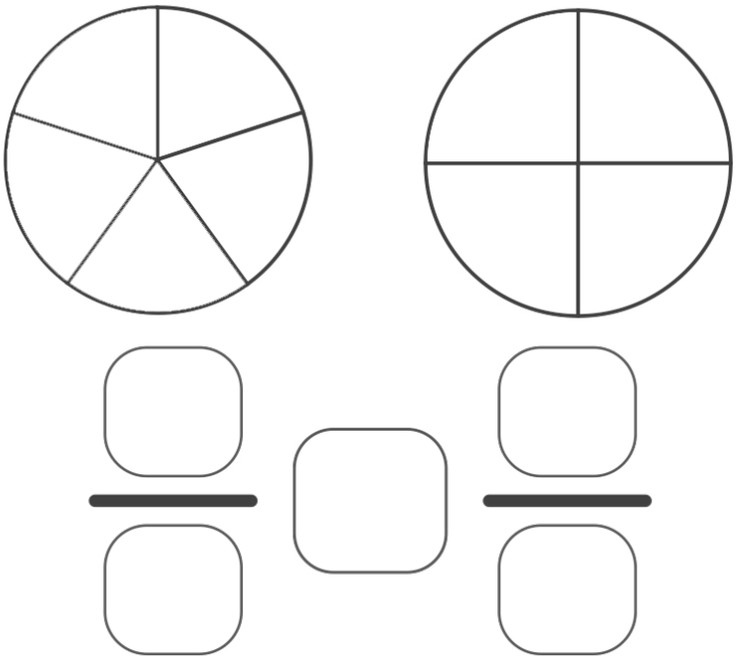
$3 \times \frac{1}{5}$

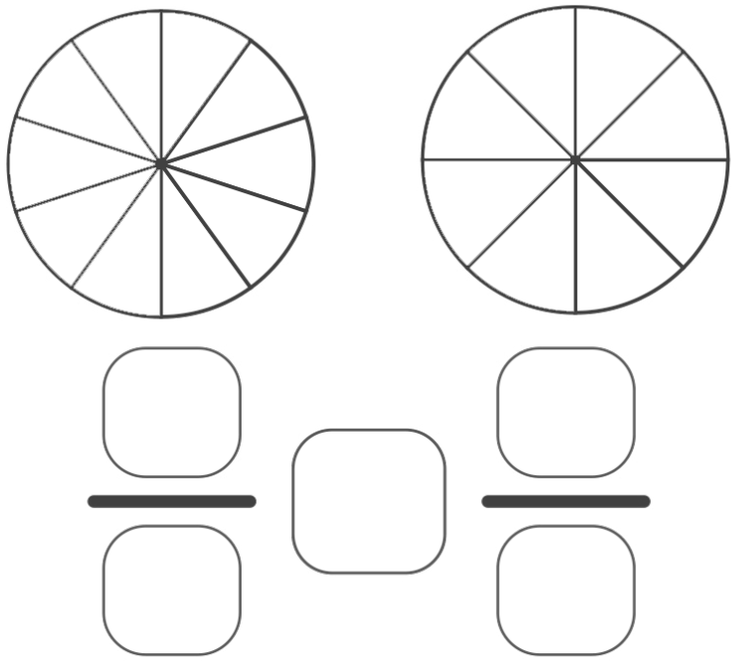


COLOR AND COMPARE
MAKE UP YOUR OWN PROBLEMS





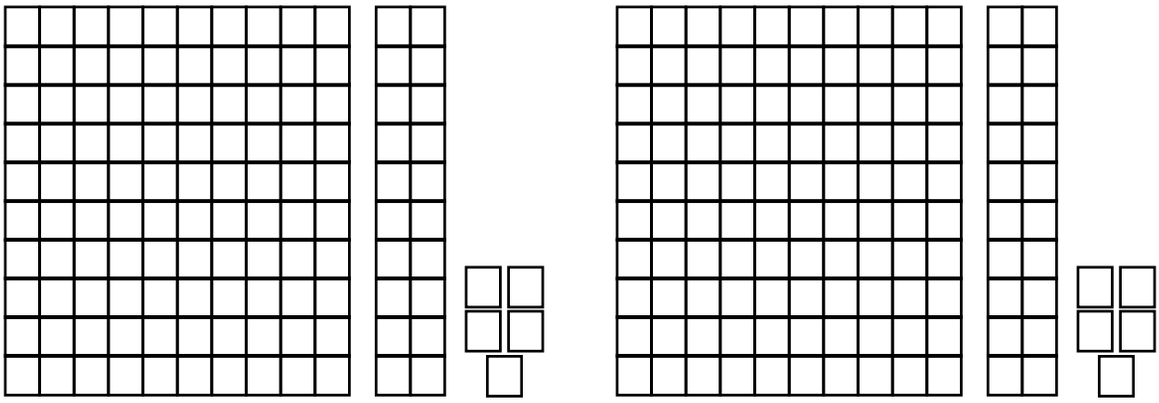




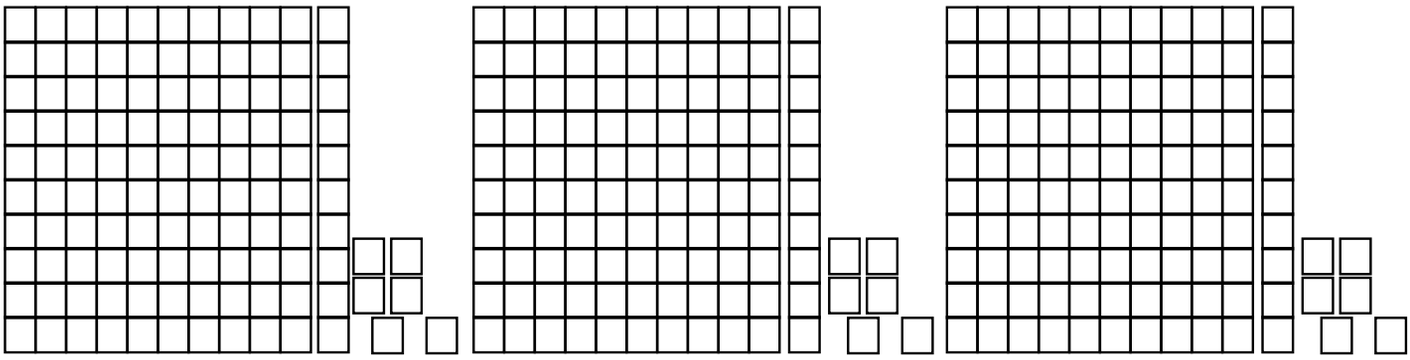
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

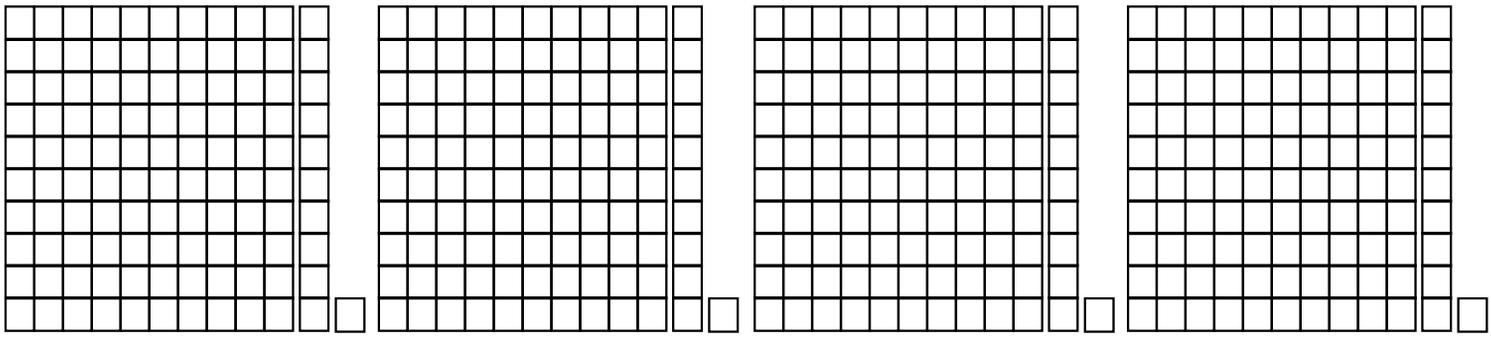
2 x 125 = ___



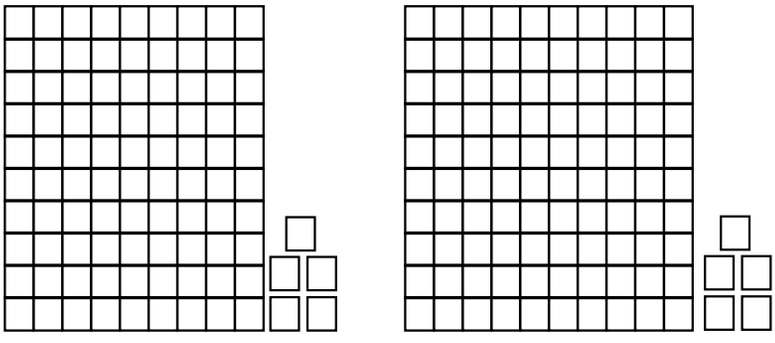
3 x 116 = ___



4 x 111 = ___



2 x 105 = ___



WEEK 4

Multiplication Tic Tac Toe

Multiply by 9

9×2	9×7	9×5
9×1	9×8	9×6
9×9	9×10	9×3

9×3	9×6	9×9
9×4	9×10	9×1
9×8	9×7	9×2

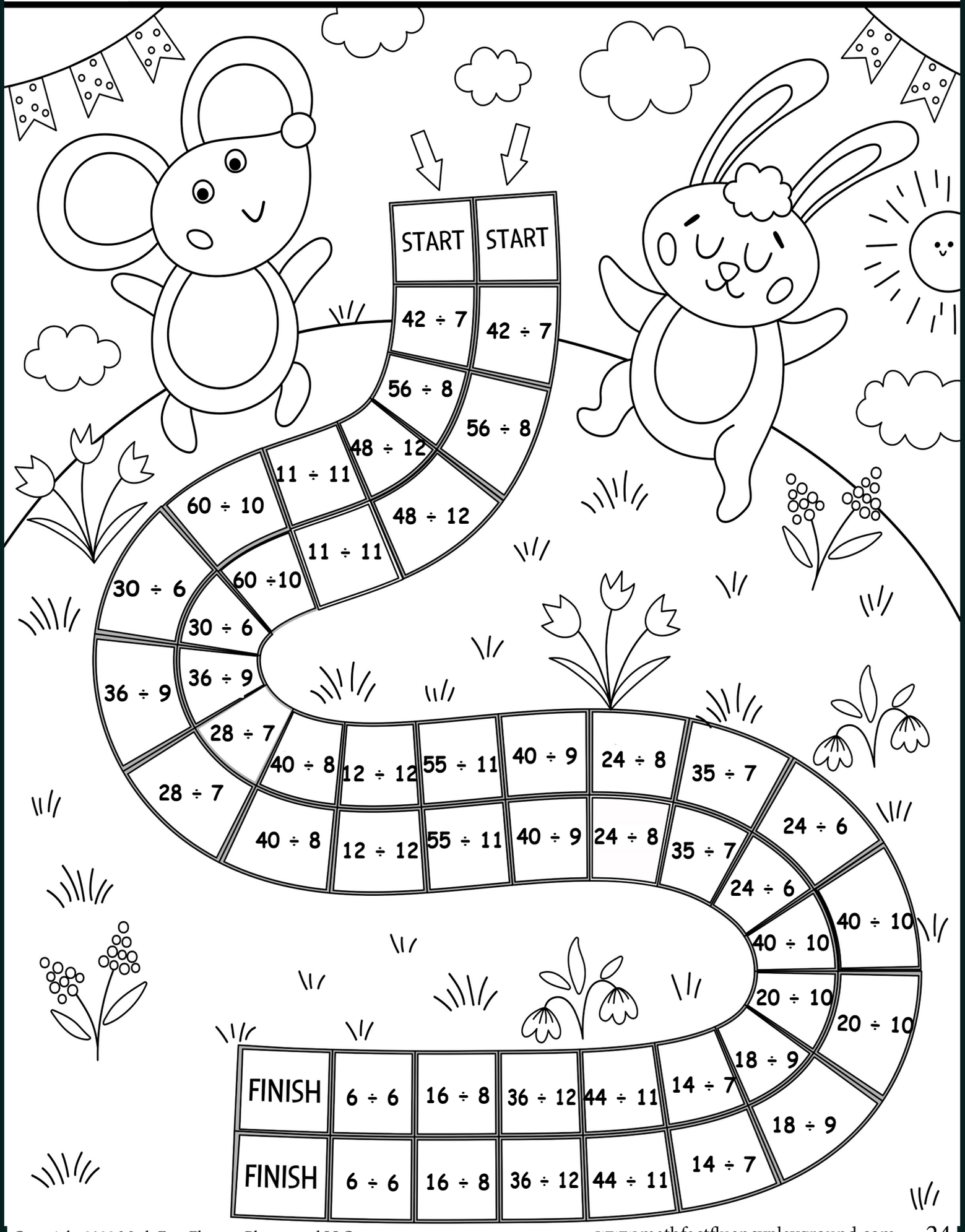
9×7	9×1	9×8
9×3	9×6	9×10
9×5	9×8	9×2

9×7	9×8	9×4
9×10	9×5	9×9
9×2	9×3	9×1

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

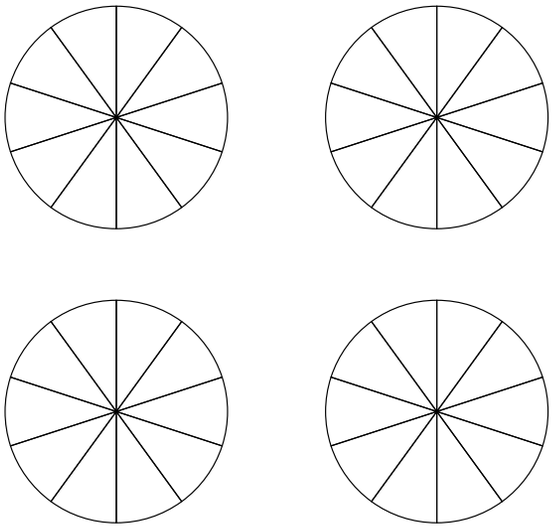
DIVISION BOARD GAME

Instructions: Roll the dice. Move and solve the problem. Whoever reaches the end first wins!

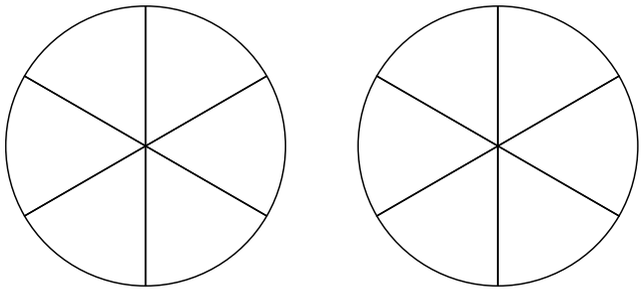


VISUALIZING MULTIPLICATION OF FRACTIONS COLOR AND SOLVE

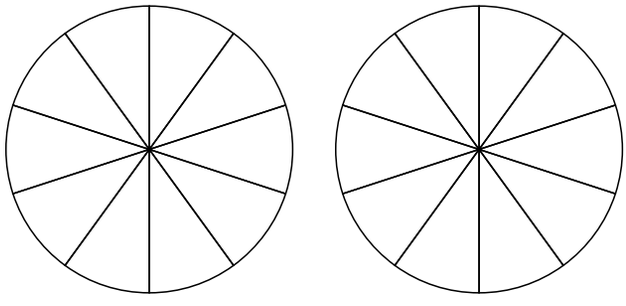
$4 \times \frac{3}{10}$



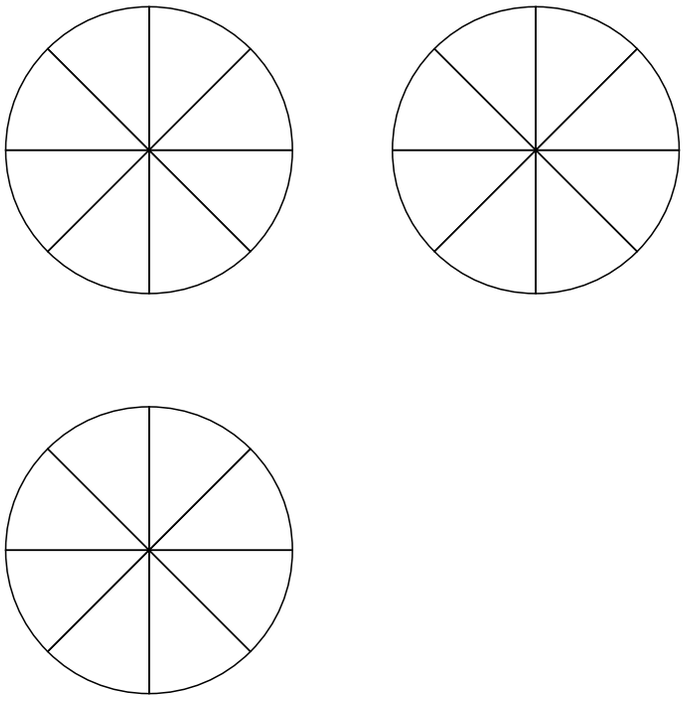
$2 \times \frac{2}{6}$



$2 \times \frac{4}{12}$

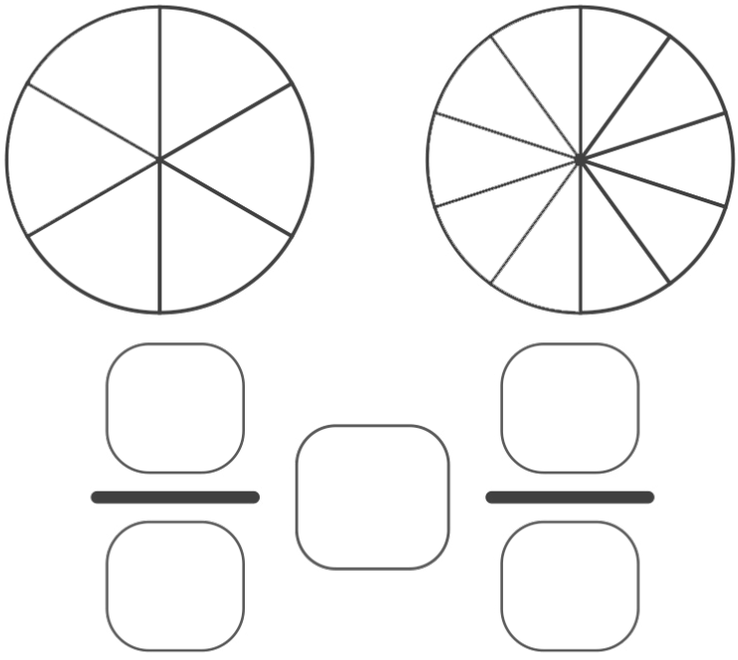


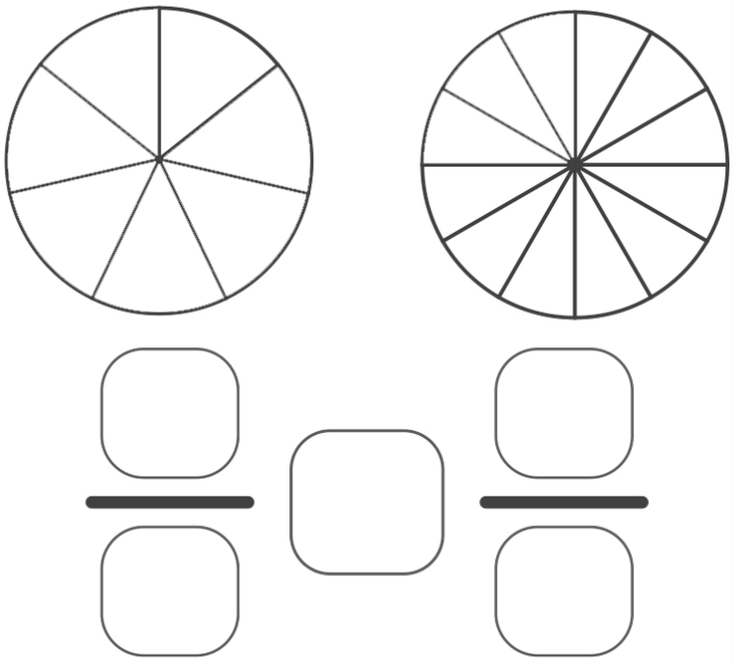
$3 \times \frac{1}{5}$

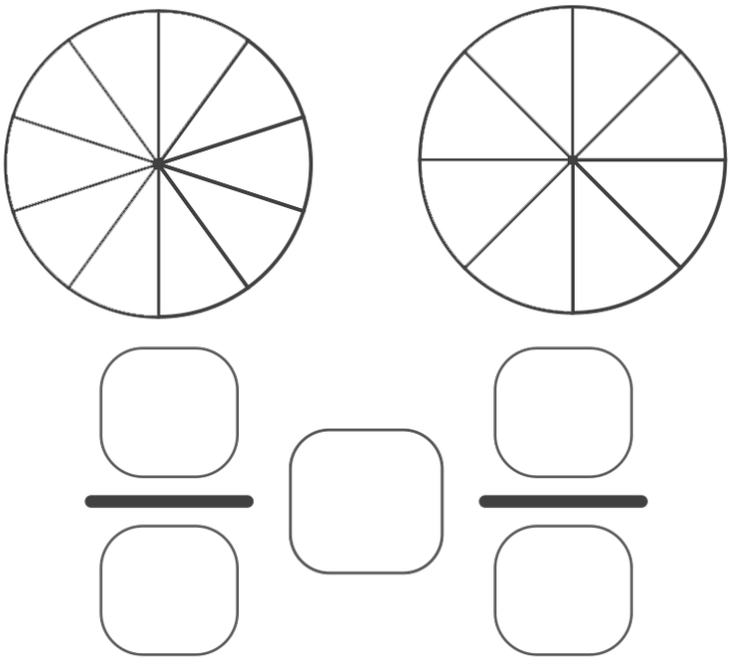


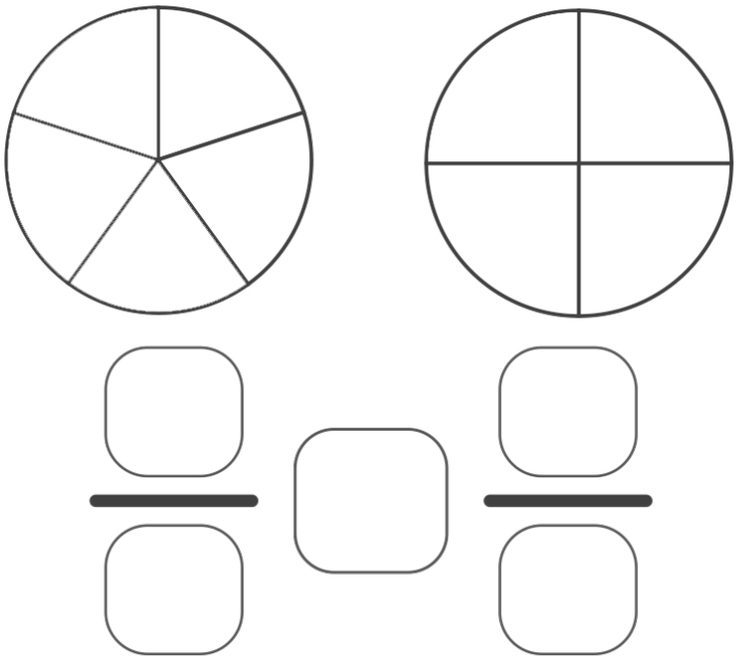
Color and Compare

Use the models to visualize and solve the problems.





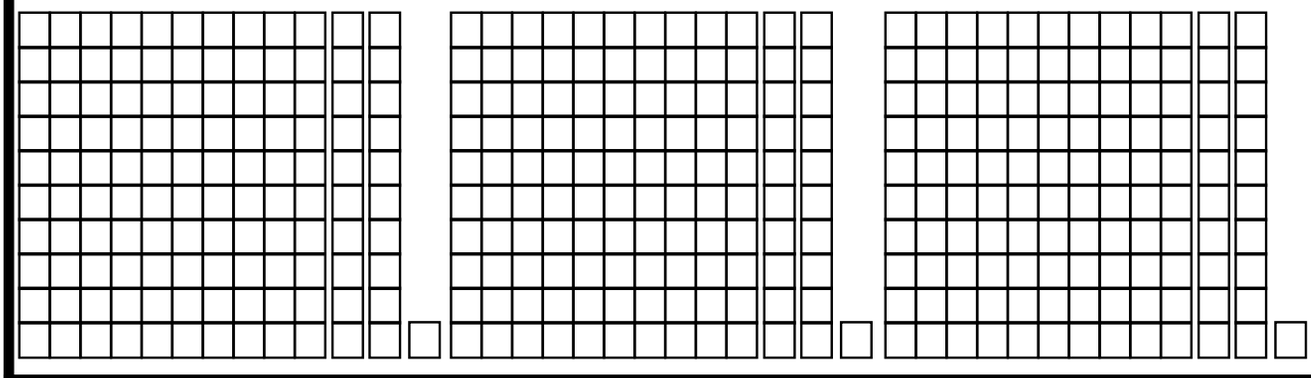




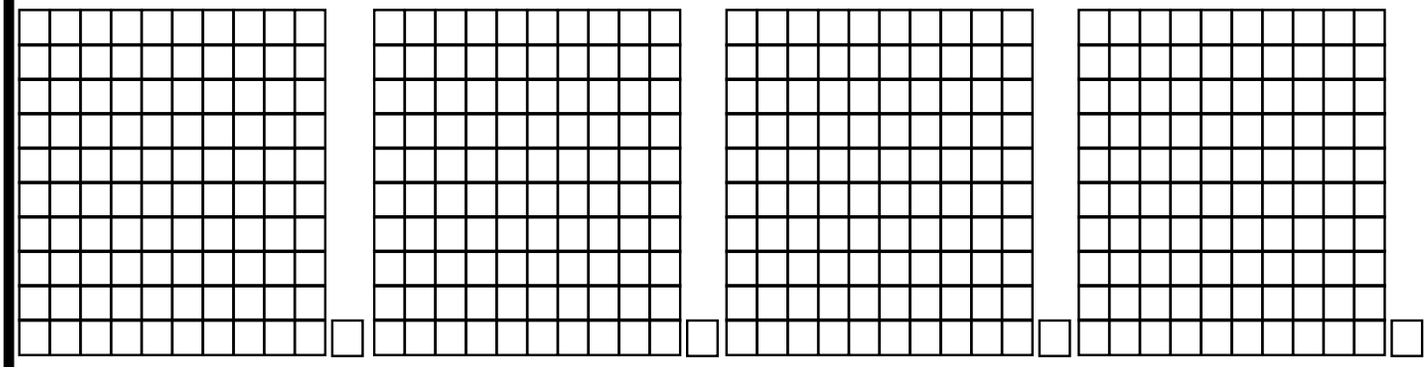
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

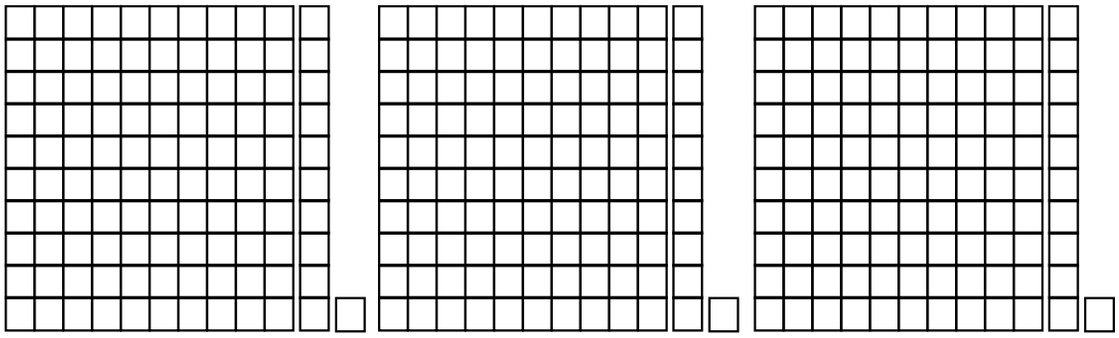
3 x 121 = ___



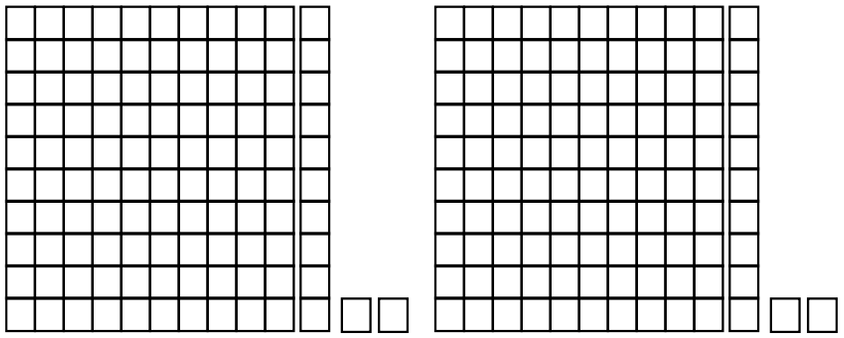
4 x 101 = ___



3 x 111 = ___



2 x 112 = ___



WEEK 5

Division Tic Tac Toe

Dividing by 11

22÷11	11÷11	33÷11
66÷11	88÷11	55÷11
77÷11	99÷11	44÷11

66÷11	22÷11	11÷11
88÷11	55÷11	77÷11
99÷11	44÷11	33÷11

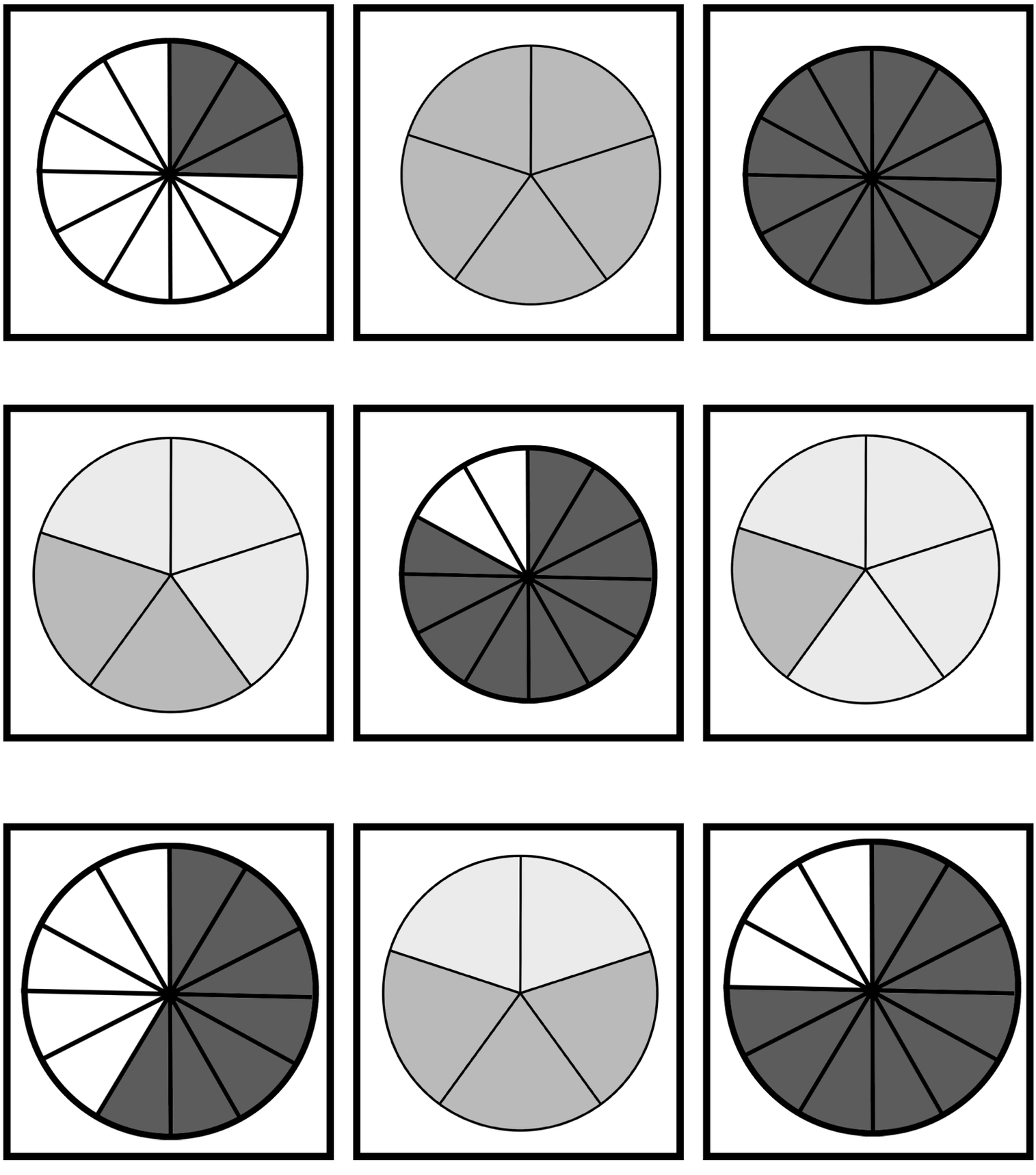
44÷11	44÷11	88÷11
55÷11	11÷11	33÷11
66÷11	99÷11	77÷11

11÷11	33÷11	77÷11
99÷11	88÷11	66÷11
44÷11	33÷11	55÷11

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

NAME THAT FRACTION

Shuffle cards and then each partner turns them over and compares them. Whoever has the largest fraction wins both cards. When all the cards are gone, whoever has the most cards wins the game.

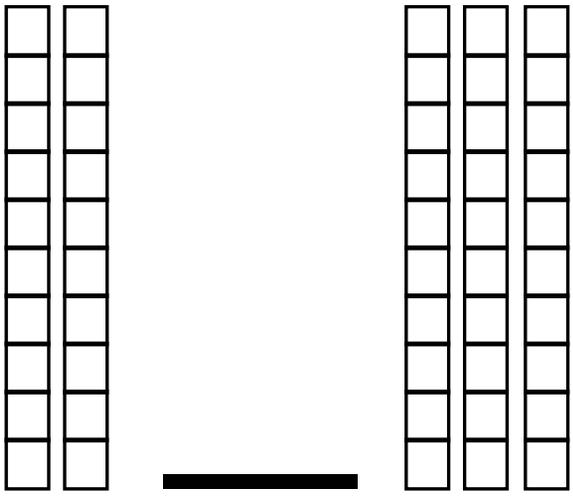


$\frac{3}{5}$	$\frac{3}{12}$	$\frac{1}{5}$
$\frac{12}{12}$	$\frac{3}{12}$	$\frac{2}{5}$
$\frac{3}{3}$	$\frac{1}{2}$	$\frac{9}{12}$
$\frac{5}{5}$	$\frac{10}{12}$	$\frac{7}{12}$

COMPARING DECIMALS

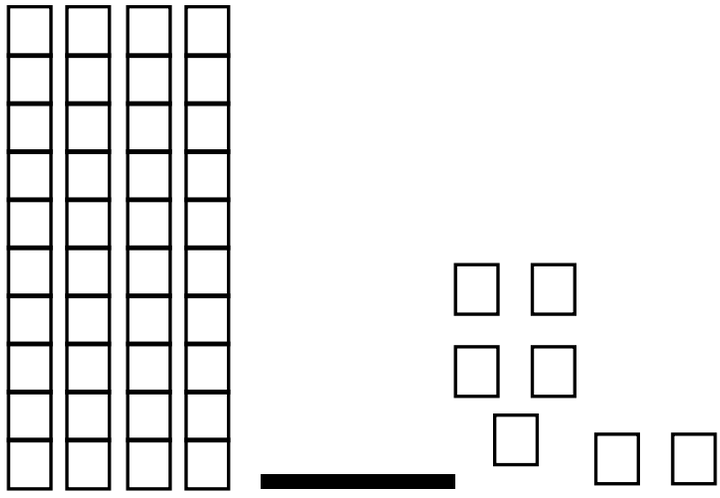
USE THE MODELS TO VISUALIZE AND COMPARE THE PROBLEMS.

.20 and .30



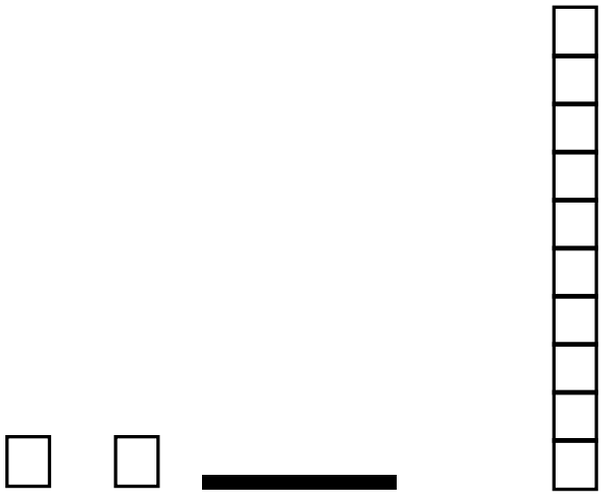
> < =

.40 and .07



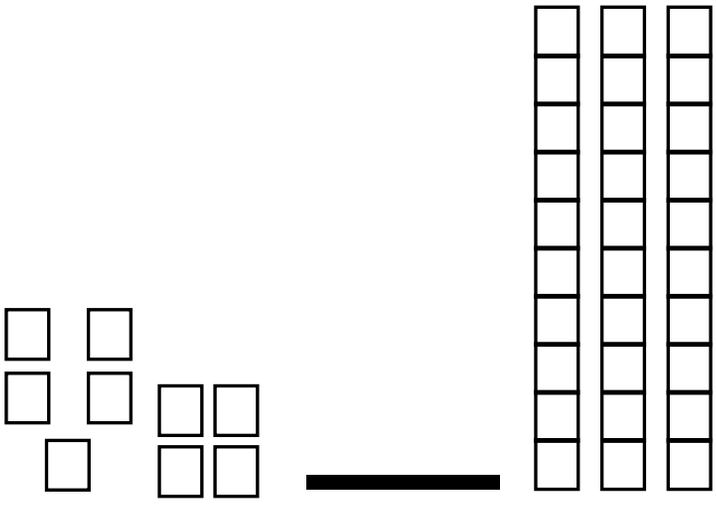
> < =

.02 and .1



> < =

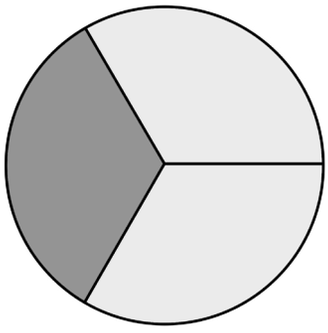
.09 and .3

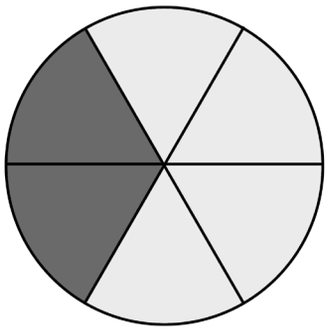


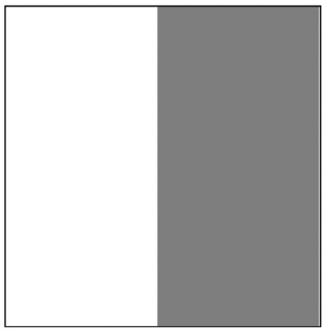
> < =

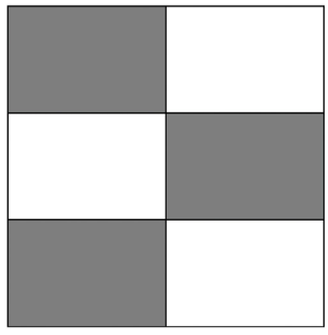
FINDING EQUIVALENT FRACTIONS

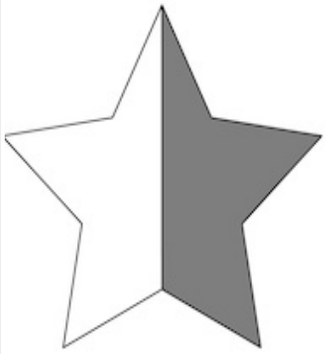
USE THE MODELS TO VISUALIZE THE ANSWER.

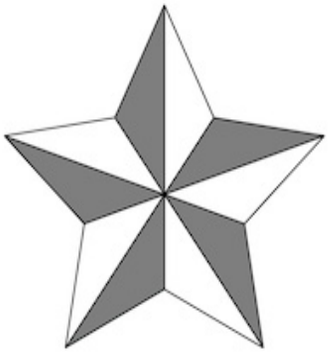


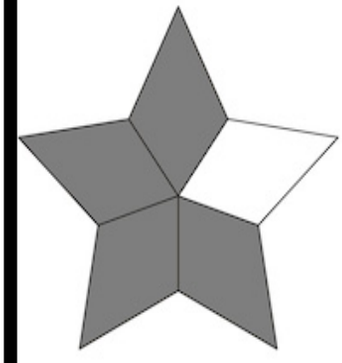


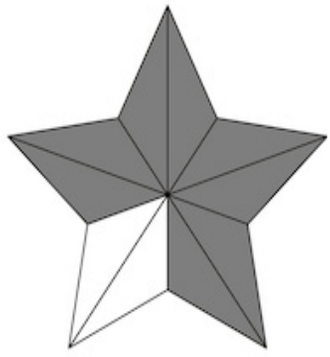










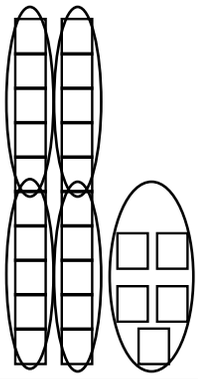


Copyright 2023 Math Fact Fluency Playground LLC

VISUALIZING DIVISION

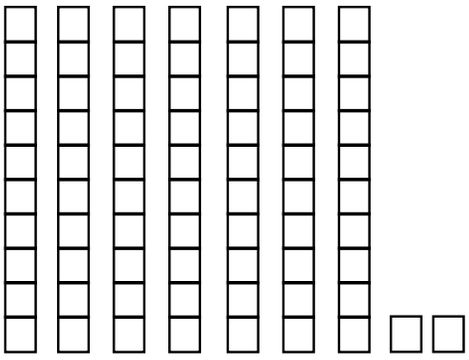
USE THE MODELS TO VISUALIZE THE ANSWER.

25 ÷ 5 = ___



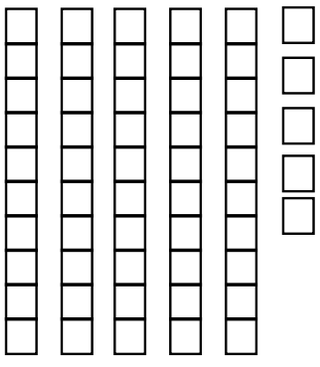
(Hint: Circle groups of 5)

72 ÷ 4 = ___



(Hint: Circle groups of 4)

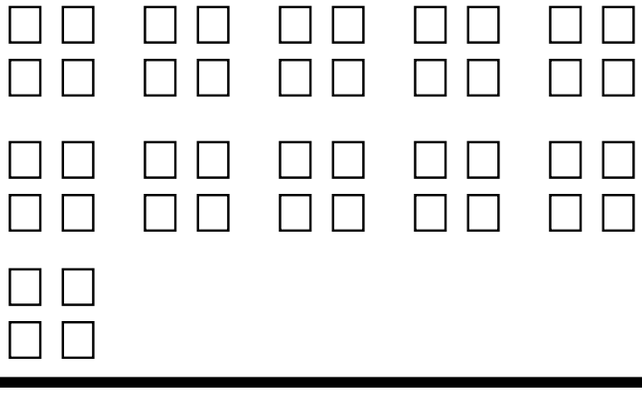
55 ÷ 11 = ___



(Hint: Circle groups of 11)

44 ÷ 4 = ___

Use the sketches to figure this problem out.



WEEK 6

Division Tic Tac Toe

Dividing by 12

96÷12	108÷12	48÷12
24÷12	36÷12	84÷12
12÷12	60÷12	72÷12

24÷12	60÷12	36÷12
84÷12	108÷12	48÷12
96÷12	72÷12	12÷12

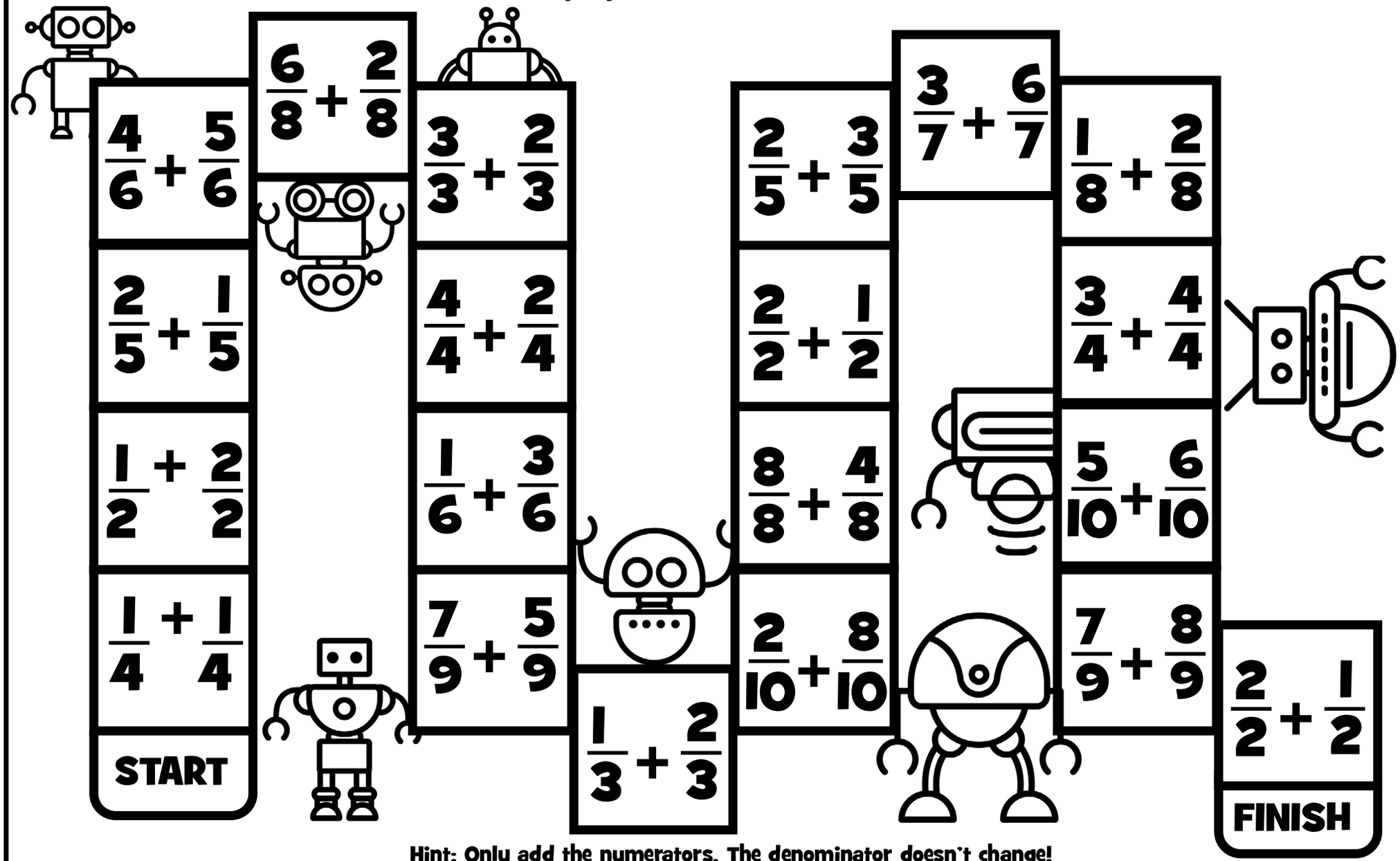
24÷12	48÷12	84÷12
96÷12	60÷12	36÷12
72÷12	12÷12	108÷12

84÷12	12÷12	108÷12
36÷12	72÷12	96÷12
24÷12	60÷12	48÷12

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

ADDING FRACTIONS

Play rock, paper, scissors to decide who starts. Pull a card and move that many spaces around the board. Add the 2 fractions. Keep going. Whoever reaches Finish first wins.



Hint: Only add the numerators. The denominator doesn't change!

ADD FRACTIONS

MOVE
1 SPACE

MOVE
2 SPACES

MOVE
3 SPACES

MOVE
1 SPACE

MOVE
2 SPACES

MOVE
3 SPACES

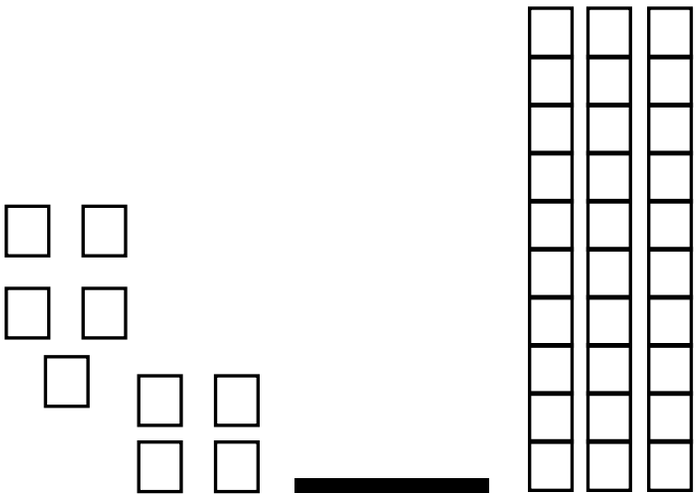
MOVE
1 SPACE

MOVE
2 SPACES

COMPARING DECIMALS

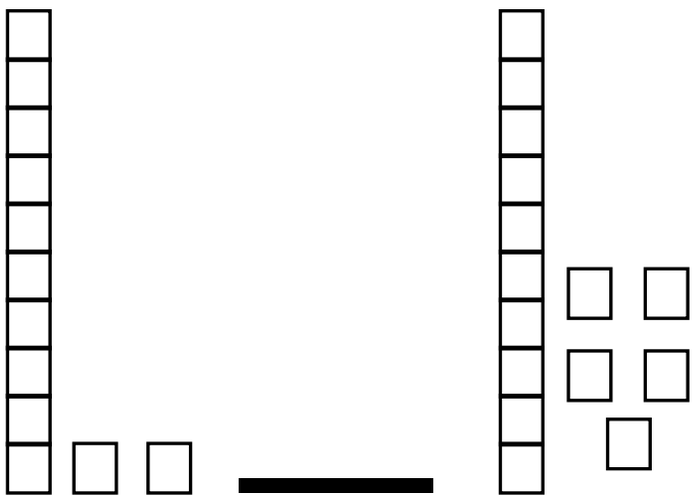
USE THE MODELS TO VISUALIZE AND COMPARE THE PROBLEMS.

.09 and .3



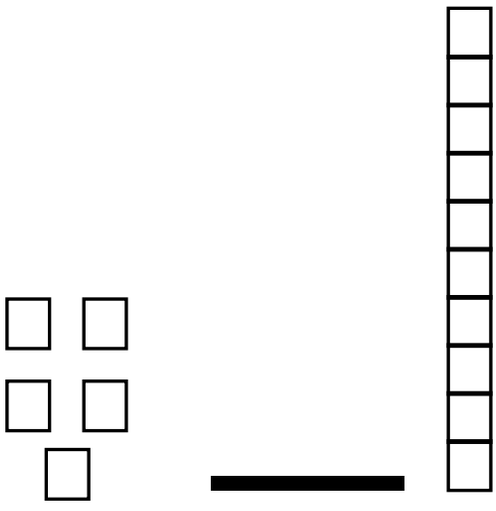
> < =

.12 and .15



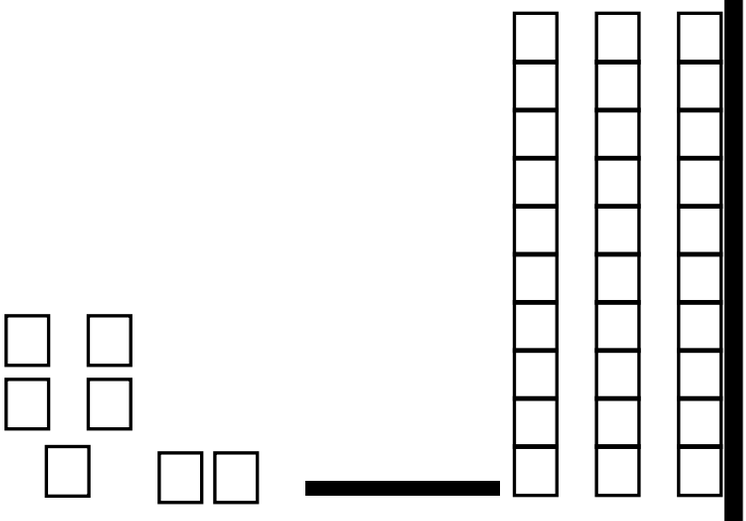
> < =

.05 and .1



> < =

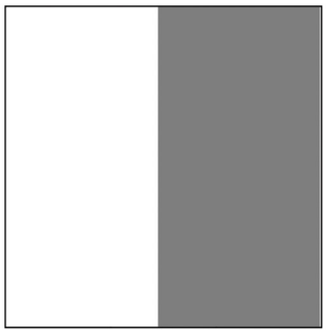
.07 and .3

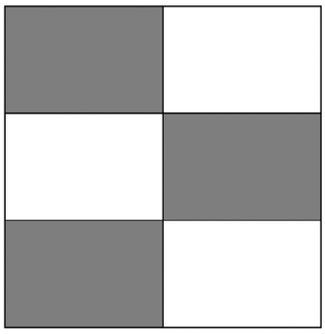


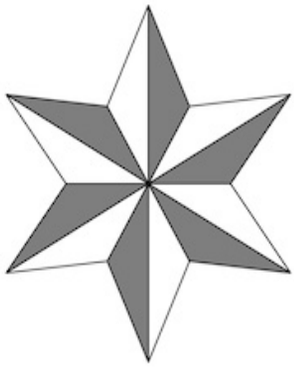
> < =

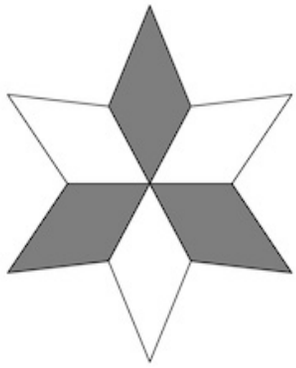
FINDING EQUIVALENT FRACTIONS

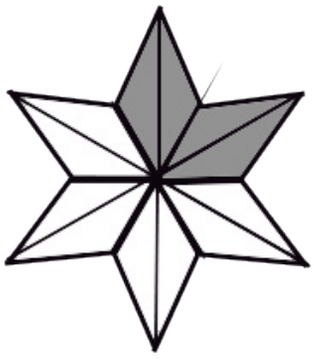
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

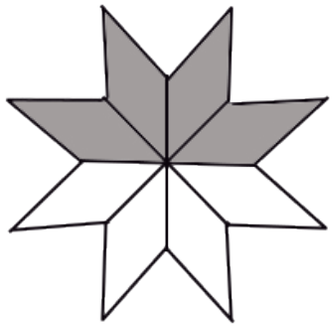


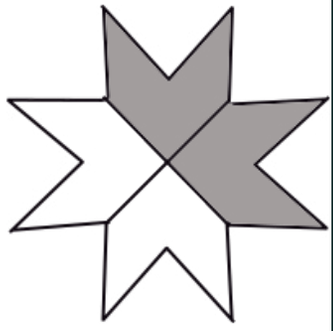










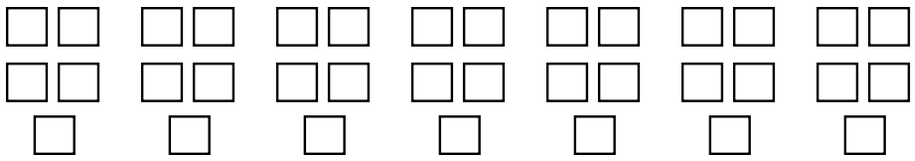


VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

35 ÷ 5 = ___

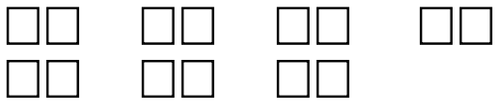
The bakery had 35 donuts. They put 5 in a box. How many boxes did they use?



(Hint: Circle groups of 5)

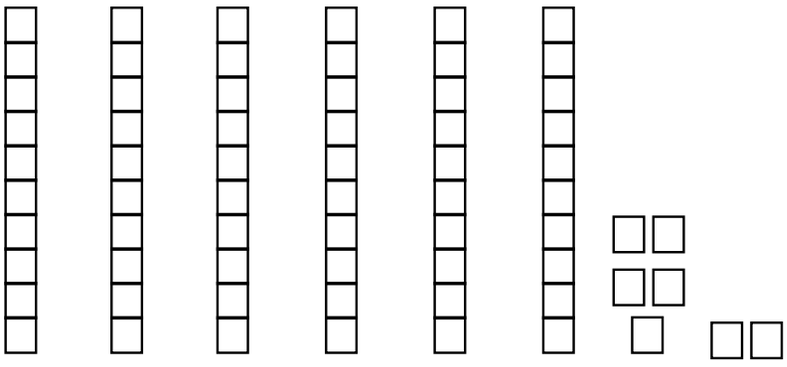
14 ÷ 4 = ___

The bakery had 12 pies. They put 4 in a box. How many boxes did they use?



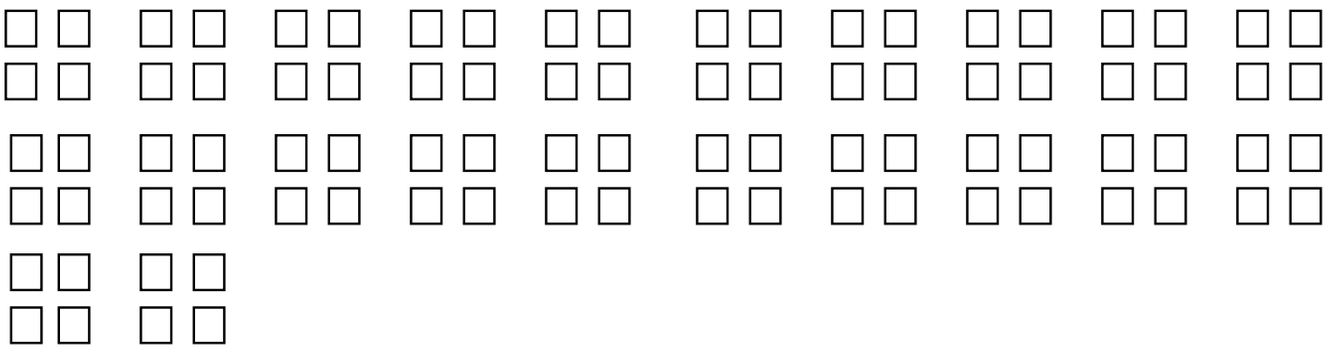
77 ÷ 7 = ___

Think 70 ÷ 7 and then 7 ÷ 7 !



80 ÷ 4 = ___

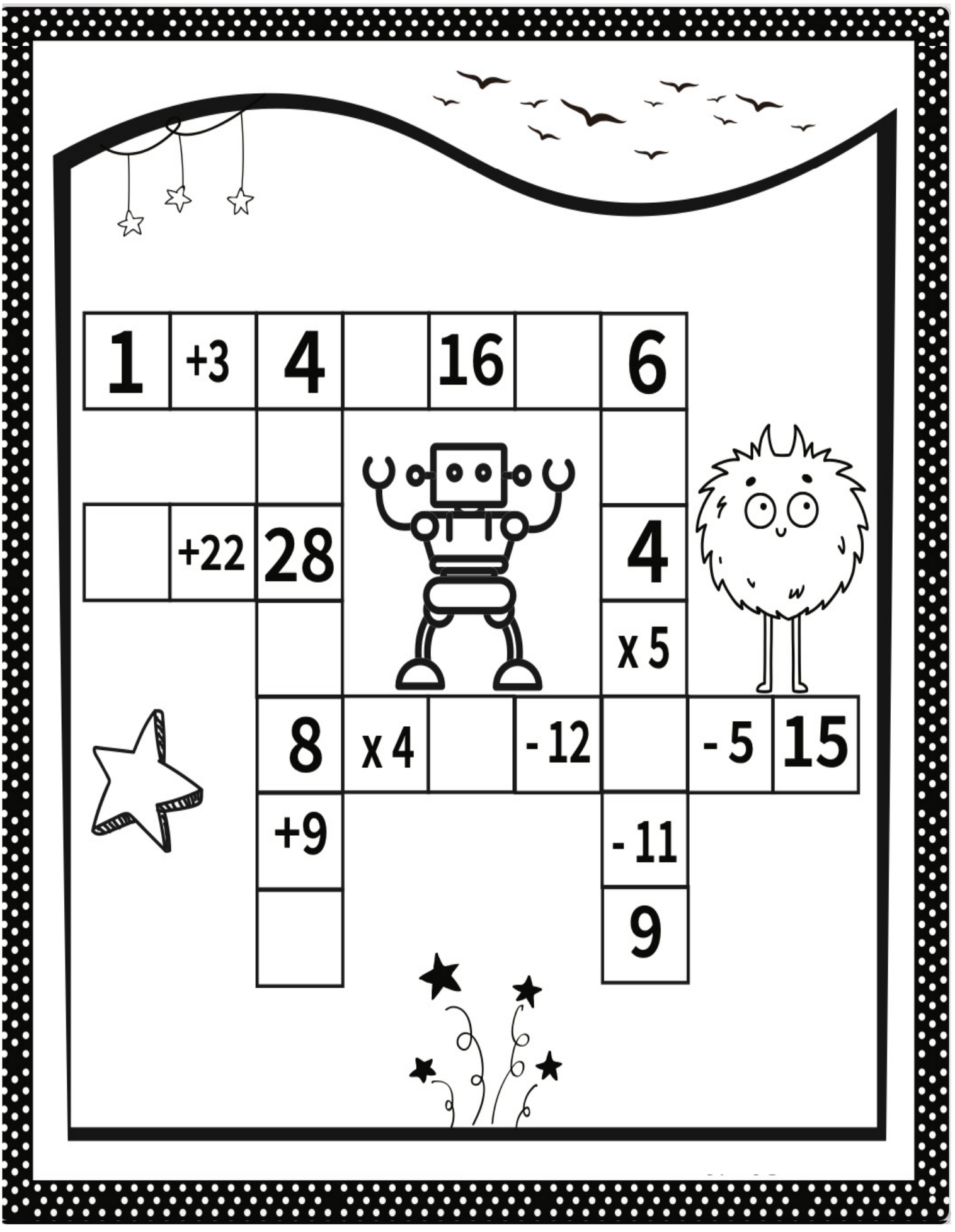
The bakery had 80 cookies. They put 4 in a box. How many boxes did they use?
Use the sketches to figure this problem out.



WEEK 7

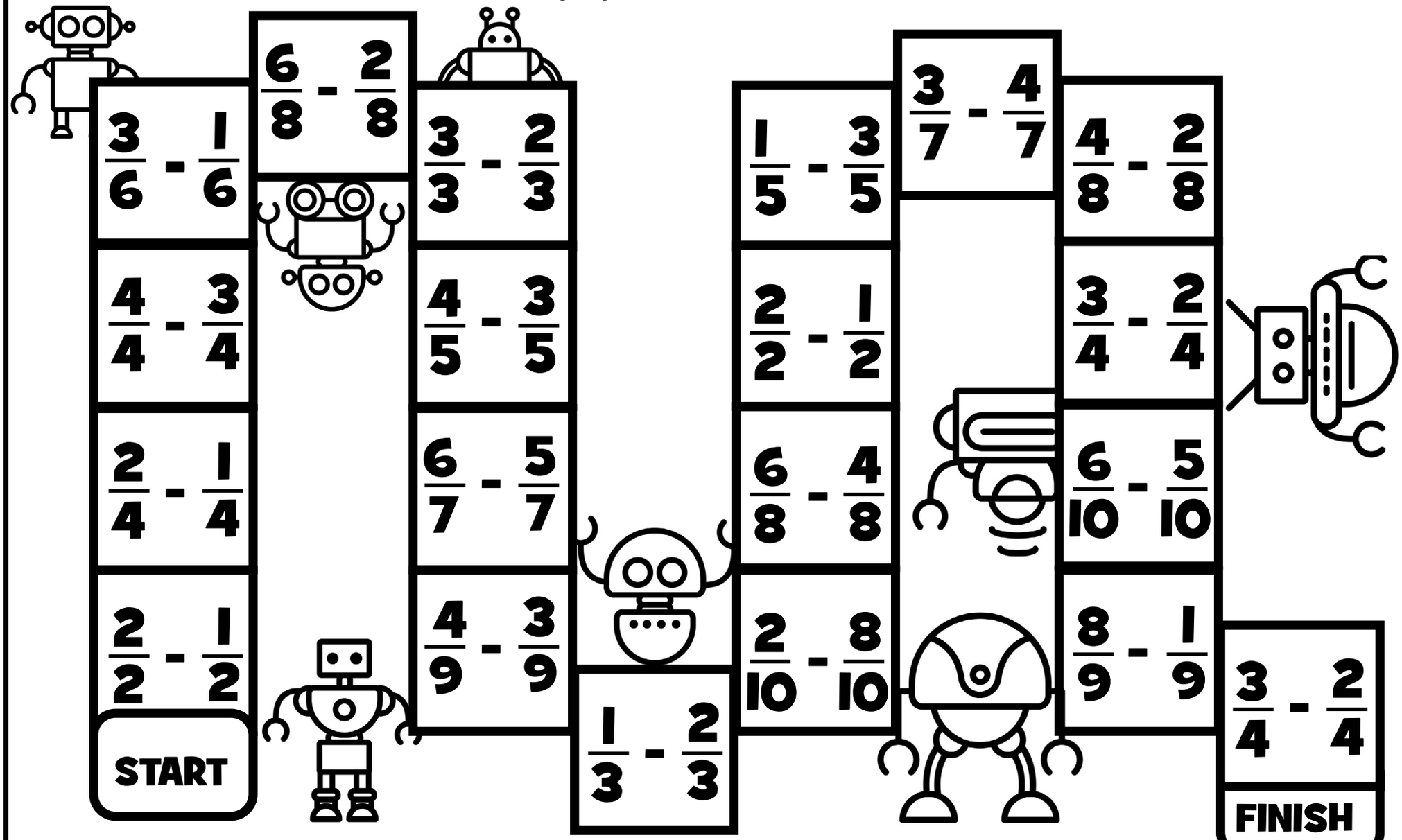
NUMBER CROSSWORD PUZZLES

Fill in the missing number to make the equation true.



SUBTRACT FRACTIONS

Play rock, paper, scissors to decide who starts. Pull a card and move that many spaces around the board. Add the 2 fractions. Keep going. Whoever reaches Finish first wins.



Hint: Only subtract numerators. The denominator doesn't change!

SUBTRACT FRACTIONS

MOVE
1 SPACE

MOVE
2 SPACES

MOVE
3 SPACES

MOVE
1 SPACE

MOVE
2 SPACES

MOVE
3 SPACES

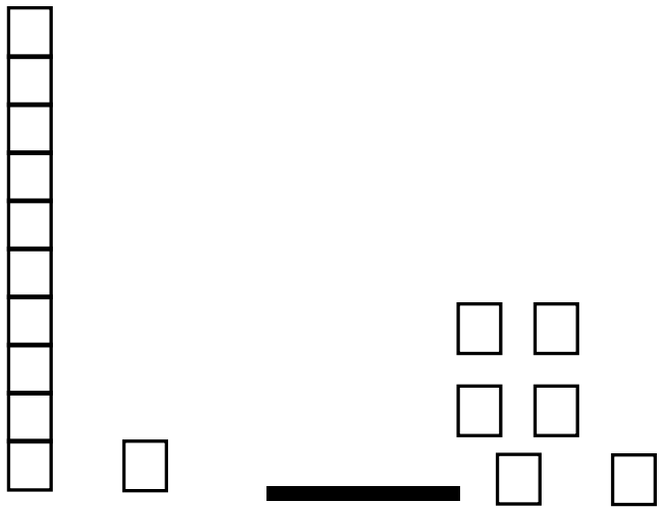
MOVE
1 SPACE

MOVE
2 SPACES

COMPARING DECIMALS

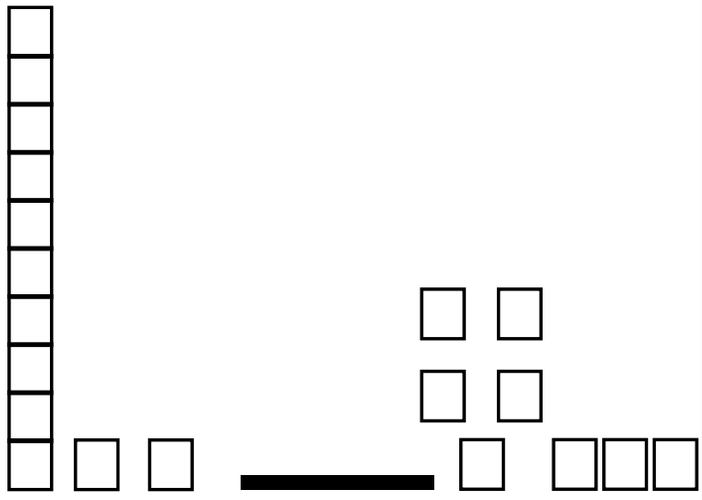
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

.21 and .06



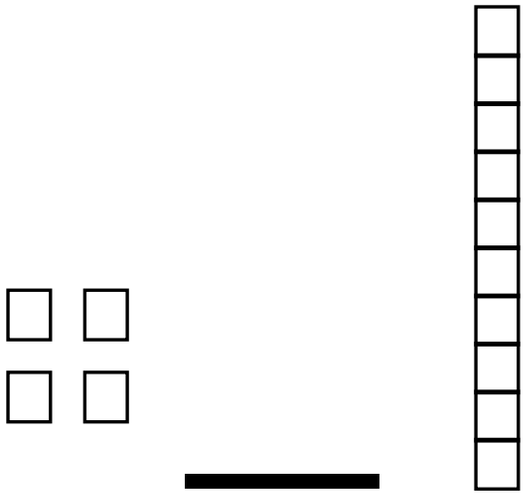
> < =

.12 and .08



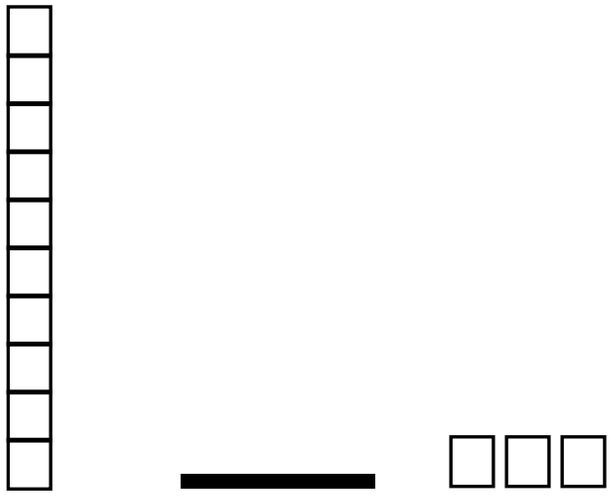
> < =

.04 and .1



> < =

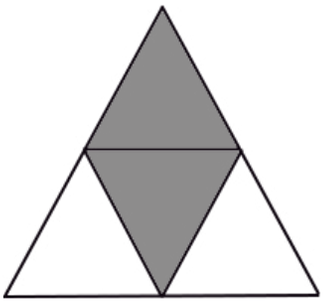
.1 and .03

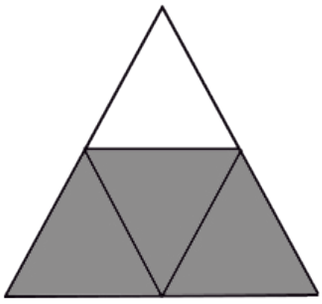


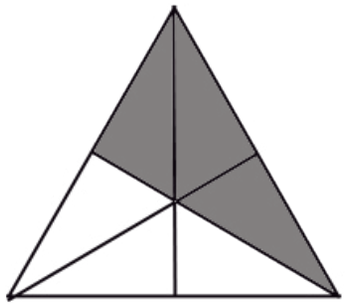
> < =

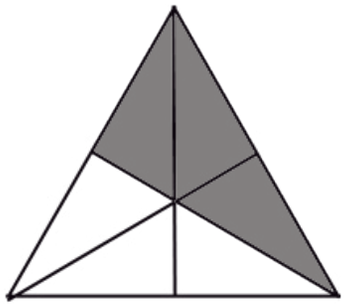
FINDING EQUIVALENT FRACTIONS

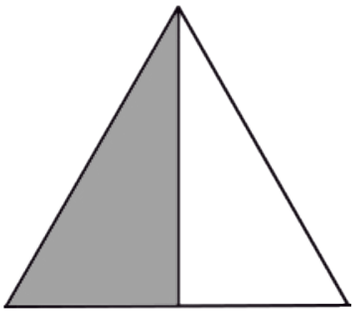
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

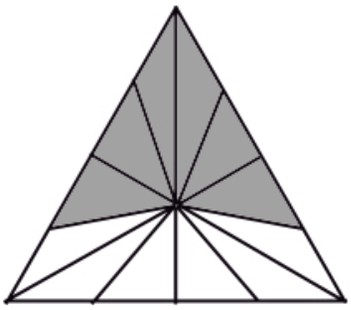


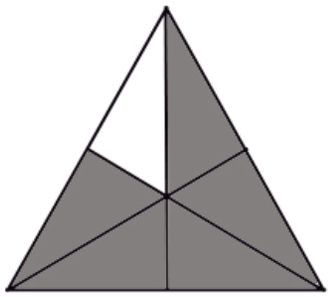


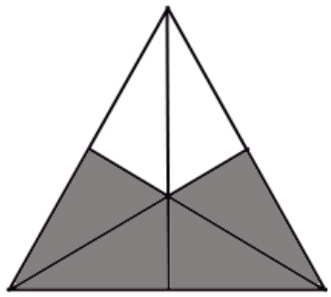










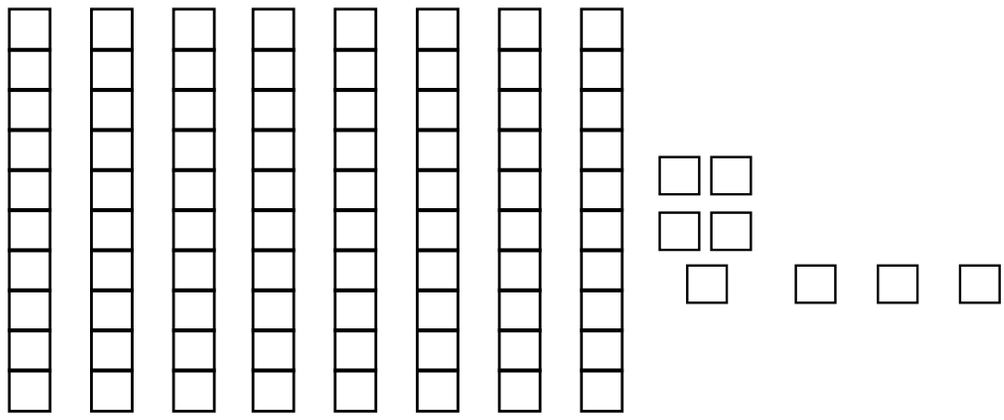


VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

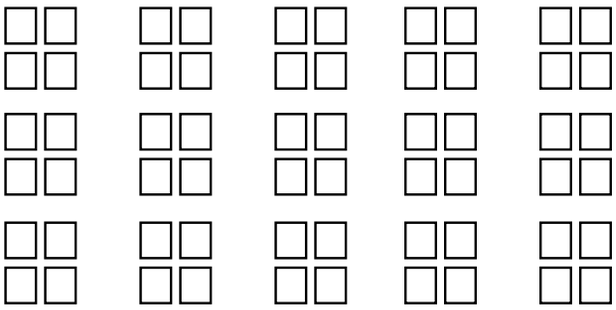
88 ÷ 8 = ___

Think 80 ÷ 8 and then 8 ÷ 8.



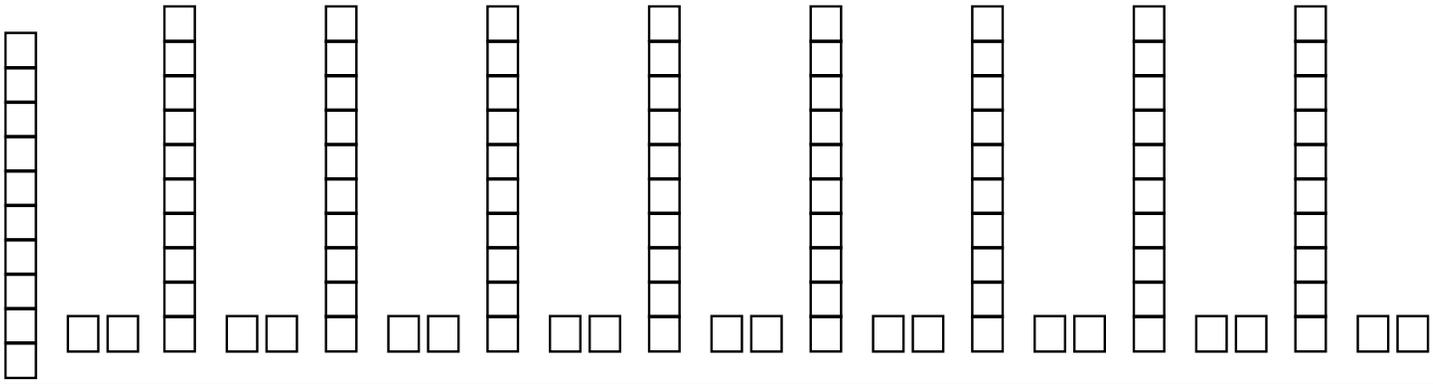
60 ÷ 4 = ___

The bakery had 60 cookies. They put 4 in a box. How many boxes did they use?
Use the sketches to figure this problem out.



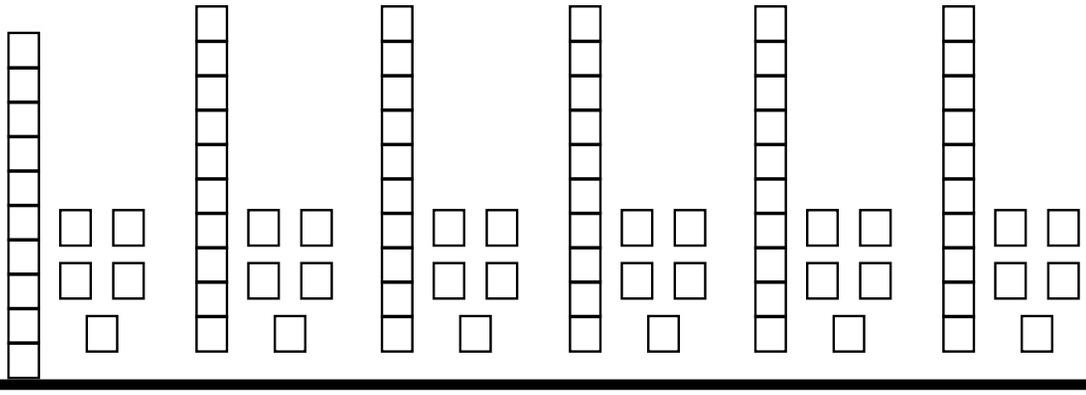
108 ÷ 12 = ___

There were 108 marbles. The store put 12 in a box. How many boxes did they use?



65 ÷ 15 = ___

There were 75 donuts. The baker put 15 in a box. How many boxes did they use?



WEEK 8

Division Tic Tac Toe

Dividing by 8

16÷8	8÷8	56÷8
80÷8	40÷8	72÷8
32÷8	48÷8	24÷8

64÷8	56÷8	8÷8
32÷8	16÷8	80÷8
24÷8	40÷8	72÷8

32÷8	24÷8	48÷8
72÷8	80÷8	8÷8
56÷8	16÷8	40÷8

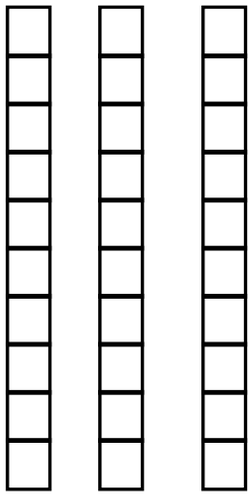
24÷8	48÷8	32÷8
56÷8	72÷8	16÷8
40÷8	80÷8	8÷8

Instructions: Play rock, paper, scissors to see who starts. Then take turns answering a problem on the mat. Whoever gets 3 in a row first wins.

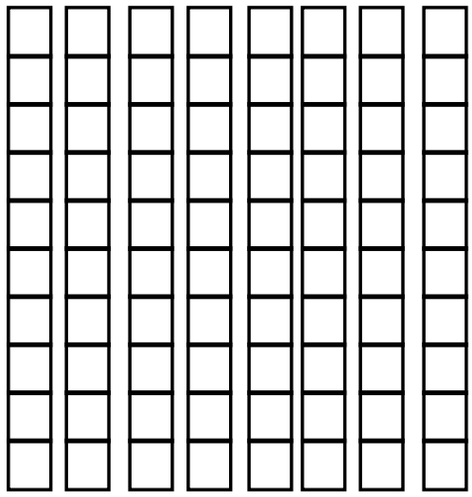
DECIMAL ADDITION ACTIVITY

USE THE MODELS TO VISUALIZE THE ANSWER. COLOR EACH ADDEND IN A DIFFERENT COLOR.

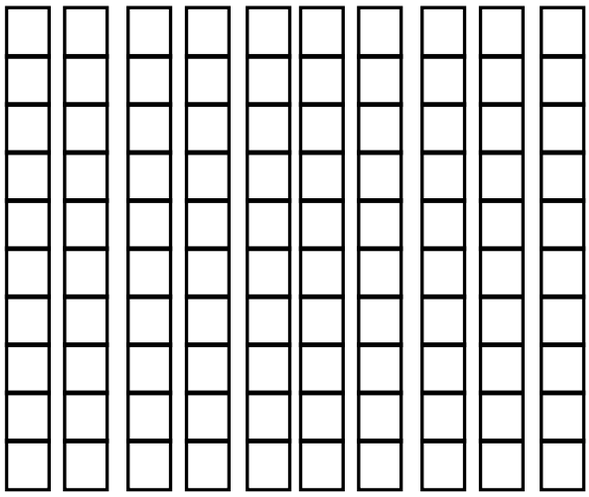
$\frac{1}{10} + \frac{2}{10}$



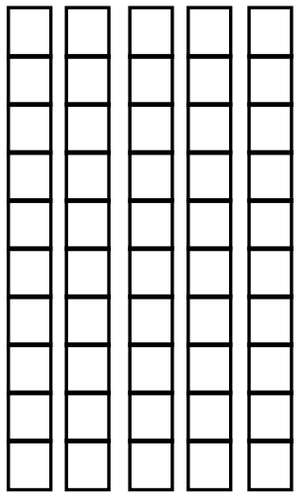
$\frac{3}{10} + \frac{5}{10}$



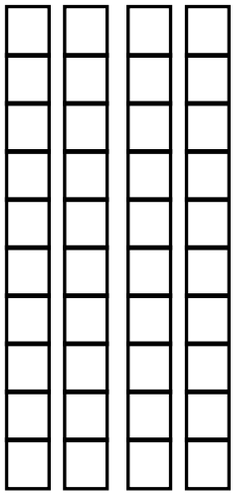
$\frac{8}{10} + \frac{2}{10}$



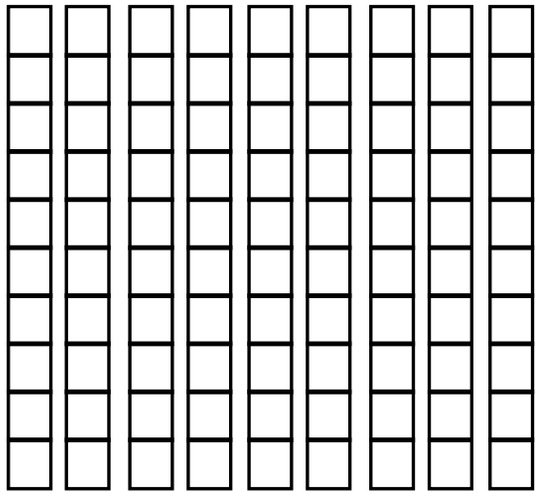
$\frac{3}{10} + \frac{2}{10}$



$\frac{2}{10} + \frac{2}{10}$



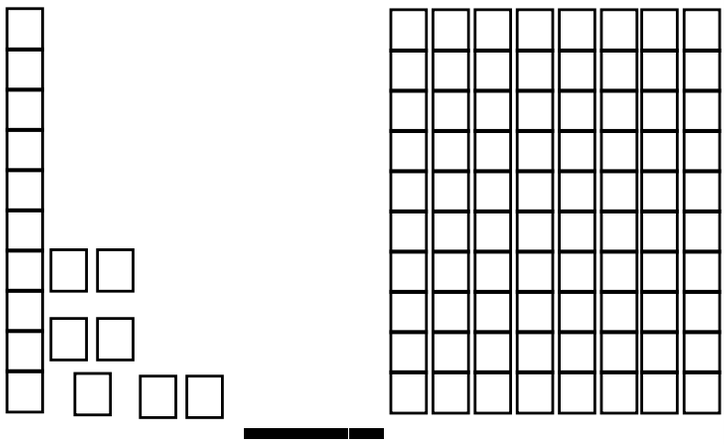
$\frac{4}{10} + \frac{5}{10}$



COMPARING DECIMALS

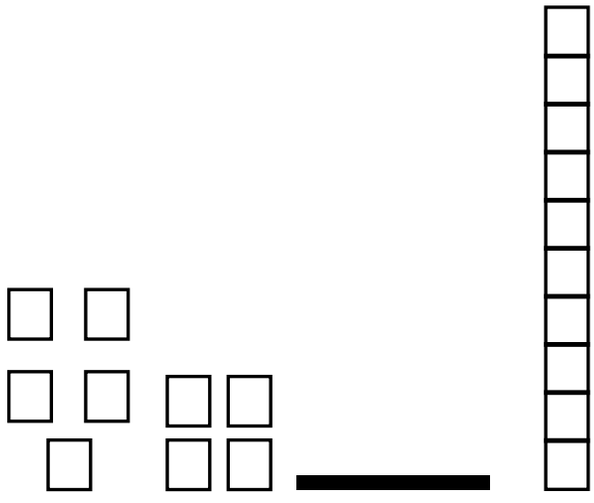
USE THE MODELS TO COMPARE THE DECIMALS.

.17 and .8



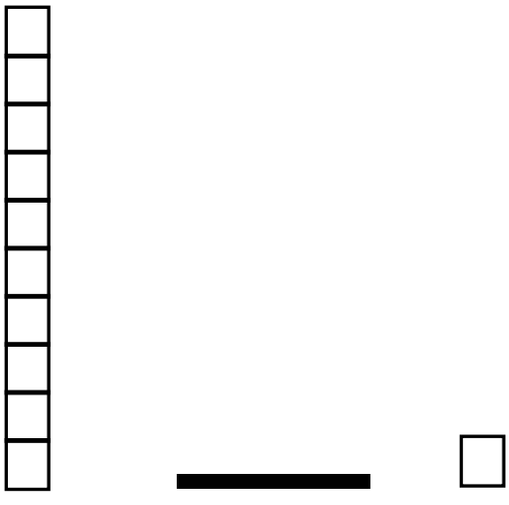
> < =

.09 and .1



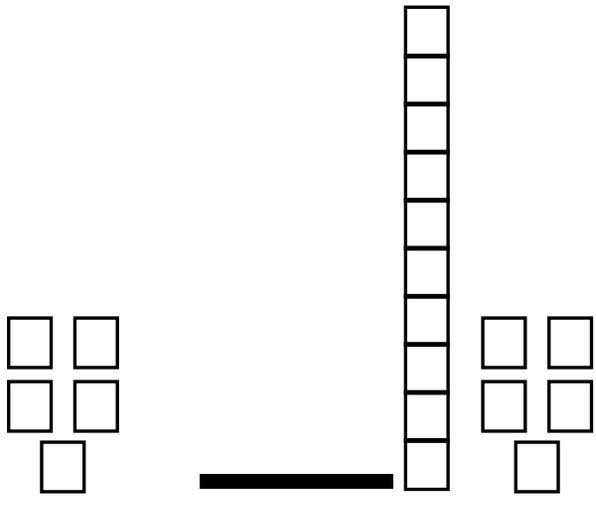
> < =

.1 and .01



> < =

.05 and .15

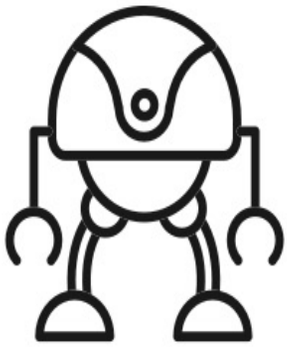


> < =

NUMBER CROSSWORD PUZZLES

Fill in the missing number to make the equation true.

2		16		9		72
9		7		10		
32		56		80	-5	
		+6				
				3		24

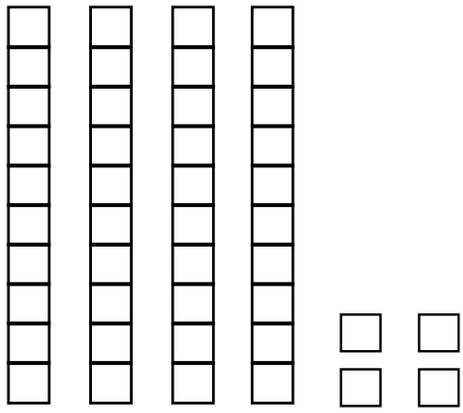


VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE THE PROBLEMS.

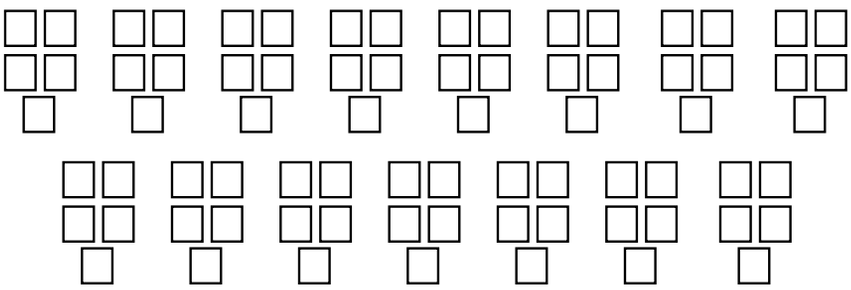
44 ÷ 4 = ___

Think 40 ÷ 4 and then 4 ÷ 4.



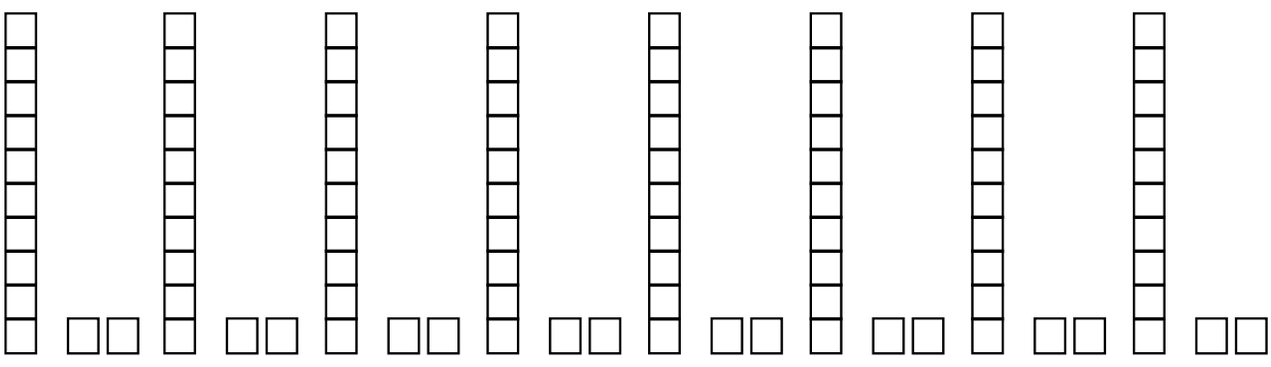
90 ÷ 5 = ___

The bakery had 90 cookies. They put 5 in a box. How many boxes did they use?
Use the sketches to figure this problem out.



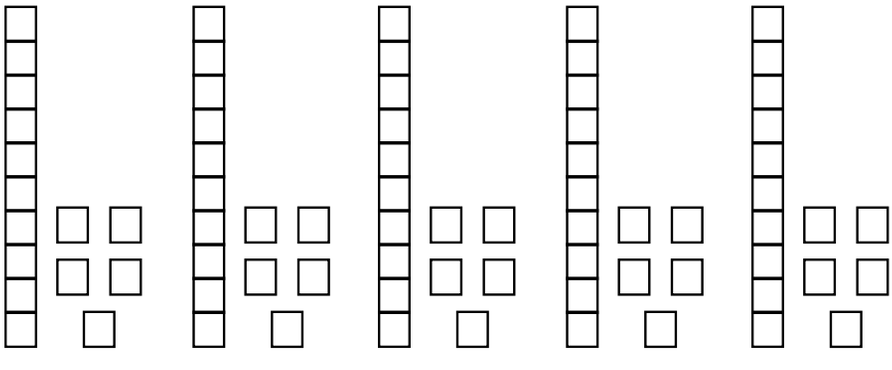
96 ÷ 12 = ___

There were 96 marbles. The store put 12 in a box. How many boxes did they use?



75 ÷ 15 = ___

There were 65 donuts. The baker put 15 in a box. How many boxes did they use?



SUMMER MATH SURVEY!

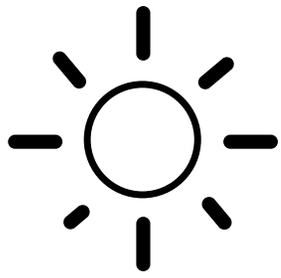
Q1: What was your favorite math activity in this packet?

Q2: What was kind of tricky? What strategies did you use to help you?

Q3: What do you need to continue to practice?

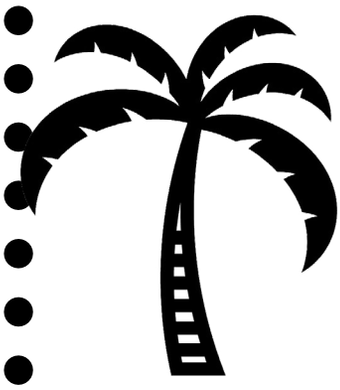
Q4: How do you feel about math?



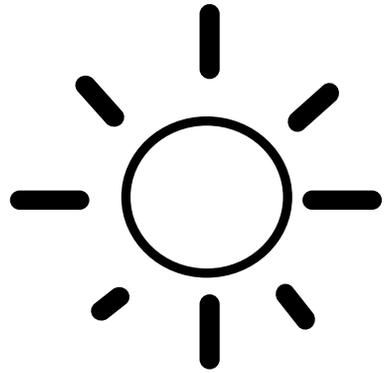


THE END

HOPE YOU HAD A GREAT SUMMER!



WOOHOO!



You did it!

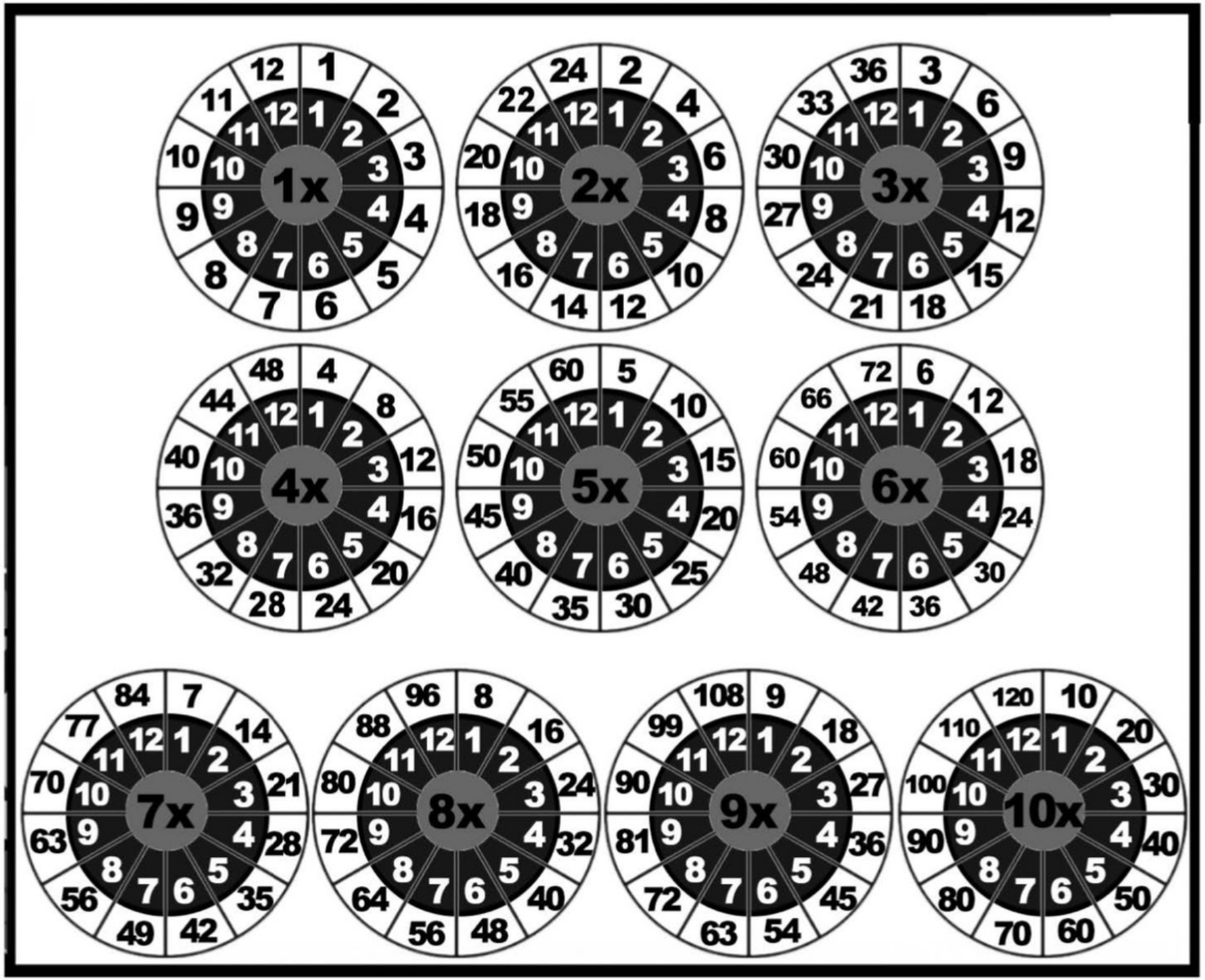
You have finished the summer packet!

CONGRATULATIONS TO YOU!

ANSWER KEY

WEEK 1,2,3,4, 5,6,7 & 8 (Multiplication and Division Answers)

MULTIPLICATION CIRCLES TO 10



Multiplication

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	108
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

DIVISION TABLES

DIVIDING BY 1

1 ÷ 1 = 1
2 ÷ 1 = 2
3 ÷ 1 = 3
4 ÷ 1 = 4
5 ÷ 1 = 5
6 ÷ 1 = 6
7 ÷ 1 = 7
8 ÷ 1 = 8
9 ÷ 1 = 9
10 ÷ 1 = 10

DIVIDING BY 2

2 ÷ 2 = 1
4 ÷ 2 = 2
6 ÷ 2 = 3
8 ÷ 2 = 4
10 ÷ 2 = 5
12 ÷ 2 = 6
14 ÷ 2 = 7
16 ÷ 2 = 8
18 ÷ 2 = 9
20 ÷ 2 = 10

DIVIDING BY 3

3 ÷ 3 = 1
6 ÷ 3 = 2
9 ÷ 3 = 3
12 ÷ 3 = 4
15 ÷ 3 = 5
18 ÷ 3 = 6
21 ÷ 3 = 7
24 ÷ 3 = 8
27 ÷ 3 = 9
30 ÷ 3 = 10

DIVIDING BY 4

4 ÷ 4 = 1
8 ÷ 4 = 2
12 ÷ 4 = 3
16 ÷ 4 = 4
20 ÷ 4 = 5
24 ÷ 4 = 6
28 ÷ 4 = 7
32 ÷ 4 = 8
36 ÷ 4 = 9
40 ÷ 4 = 10

DIVIDING BY 5

5 ÷ 5 = 1
10 ÷ 5 = 2
15 ÷ 5 = 3
20 ÷ 5 = 4
25 ÷ 5 = 5
30 ÷ 5 = 6
35 ÷ 5 = 7
40 ÷ 5 = 8
45 ÷ 5 = 9
50 ÷ 5 = 10

DIVISION TABLES

DIVIDING BY 6

6 ÷ 6 = 1
12 ÷ 6 = 2
18 ÷ 6 = 3
24 ÷ 6 = 4
30 ÷ 6 = 5
36 ÷ 6 = 6
42 ÷ 6 = 7
48 ÷ 6 = 8
54 ÷ 6 = 9
60 ÷ 6 = 10

DIVIDING BY 7

7 ÷ 7 = 1
14 ÷ 7 = 2
21 ÷ 7 = 3
28 ÷ 7 = 4
35 ÷ 7 = 5
42 ÷ 7 = 6
49 ÷ 7 = 7
56 ÷ 7 = 8
63 ÷ 7 = 9
70 ÷ 7 = 10

DIVIDING BY 8

8 ÷ 8 = 1
16 ÷ 8 = 2
24 ÷ 8 = 3
32 ÷ 8 = 4
40 ÷ 8 = 5
48 ÷ 8 = 6
56 ÷ 8 = 7
64 ÷ 8 = 8
72 ÷ 8 = 9
80 ÷ 8 = 10

DIVIDING BY 9

9 ÷ 9 = 1
18 ÷ 9 = 2
27 ÷ 9 = 3
36 ÷ 9 = 4
45 ÷ 9 = 5
54 ÷ 9 = 6
63 ÷ 9 = 7
72 ÷ 9 = 8
81 ÷ 9 = 9
90 ÷ 9 = 10

DIVIDING BY 10

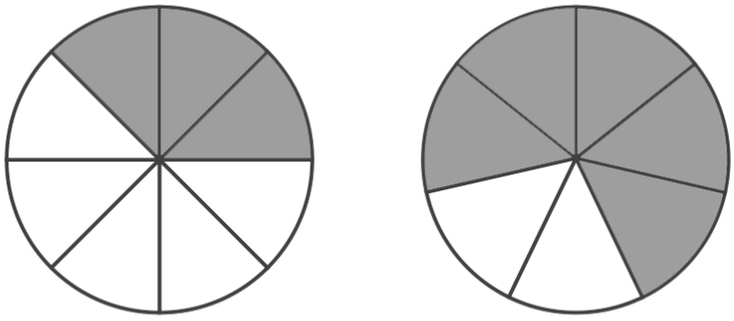
10 ÷ 10 = 1
20 ÷ 10 = 2
30 ÷ 10 = 3
40 ÷ 10 = 4
50 ÷ 10 = 5
60 ÷ 10 = 6
70 ÷ 10 = 7
80 ÷ 10 = 8
90 ÷ 10 = 9
100 ÷ 10 = 10

WEEK 1

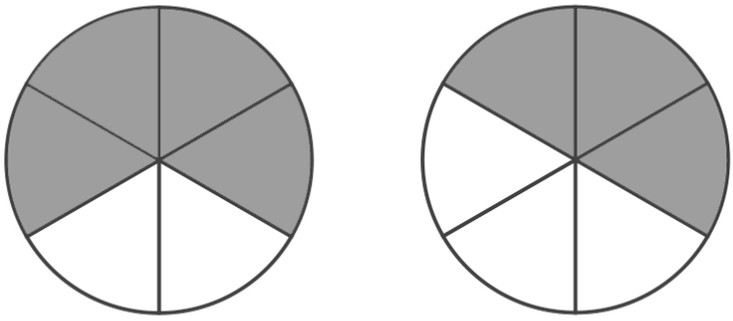
COLOR AND COMPARE

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

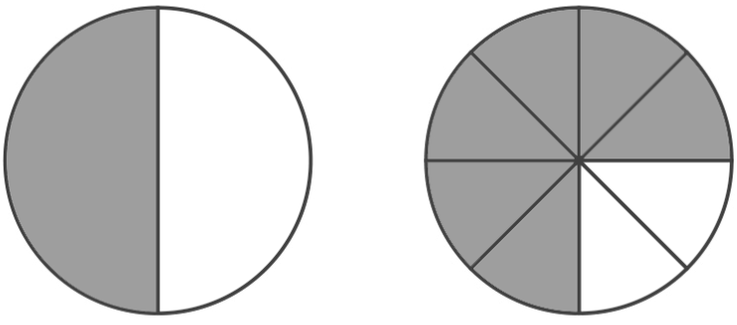
<, > , =



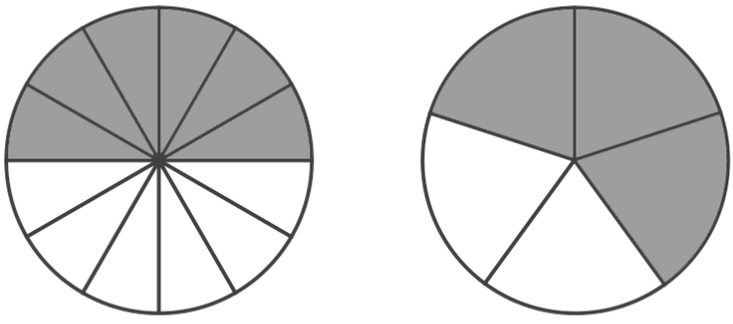
$\frac{3}{8} < \frac{5}{7}$



$\frac{4}{6} > \frac{3}{6}$



$\frac{1}{2} < \frac{6}{8}$

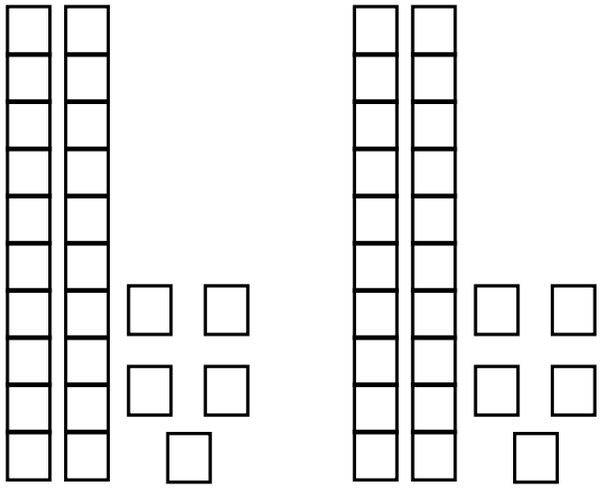


$\frac{6}{12} < \frac{3}{5}$

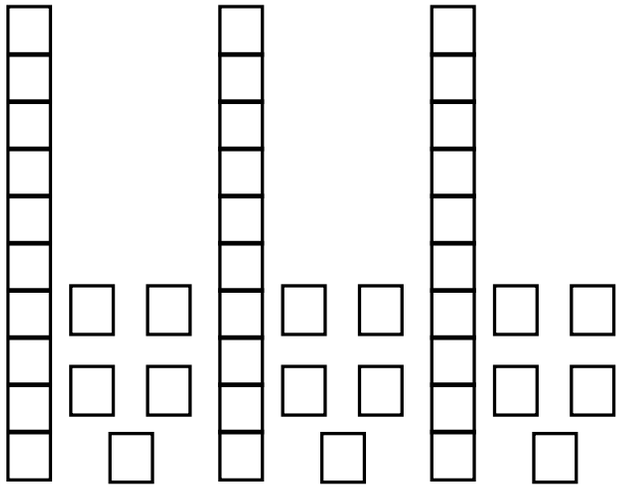
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

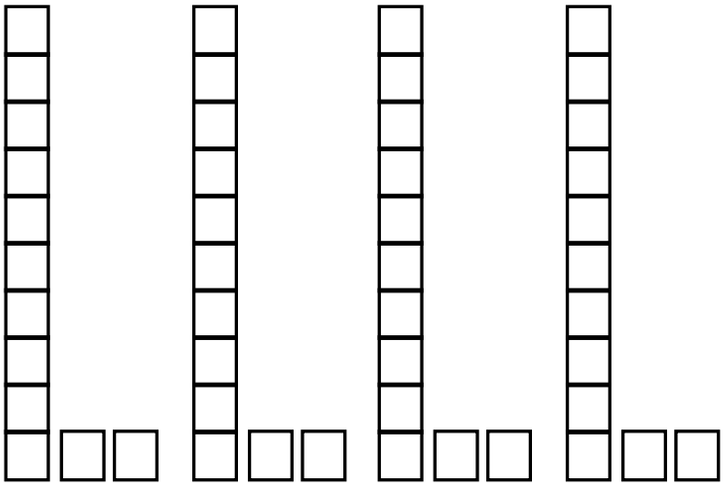
2 x 25 = 50



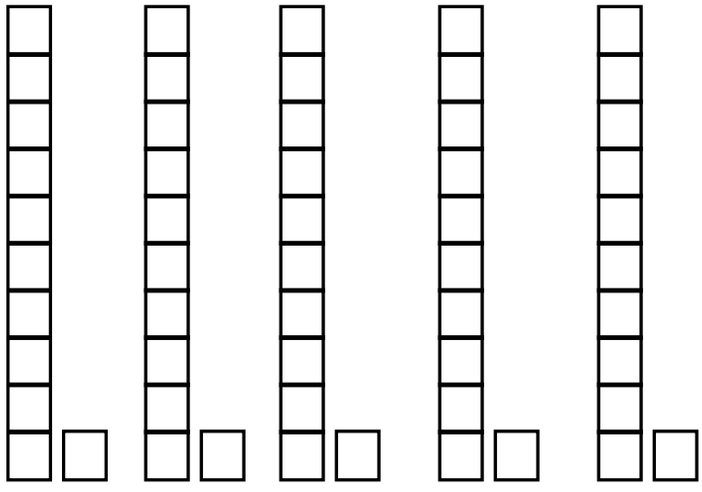
3 x 15 = 45



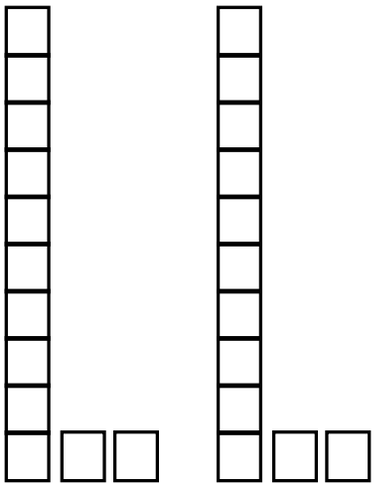
4 x 12 = 48



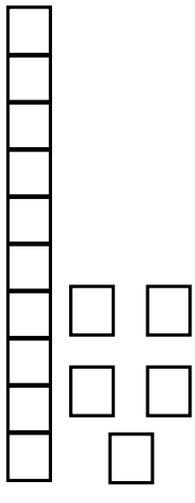
5 x 11 = 55



2 x 12 = 24



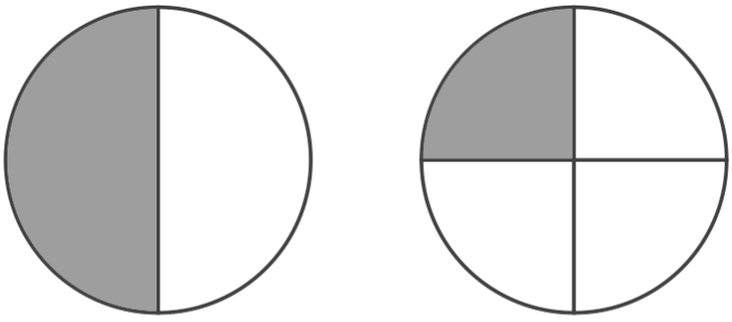
1 x 15 = 15



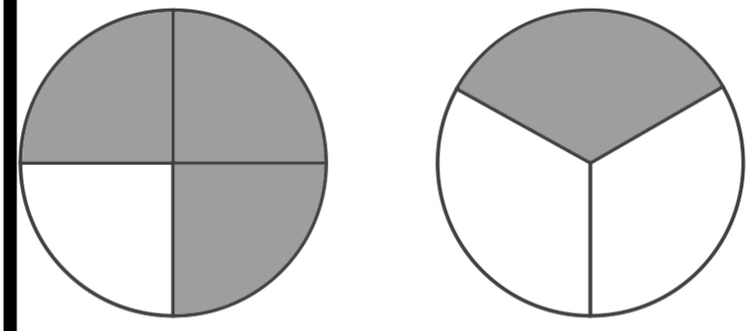
WEEK 2

COLOR AND COMPARE

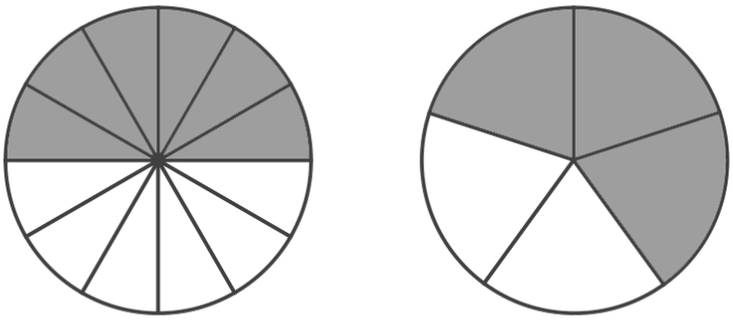
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.



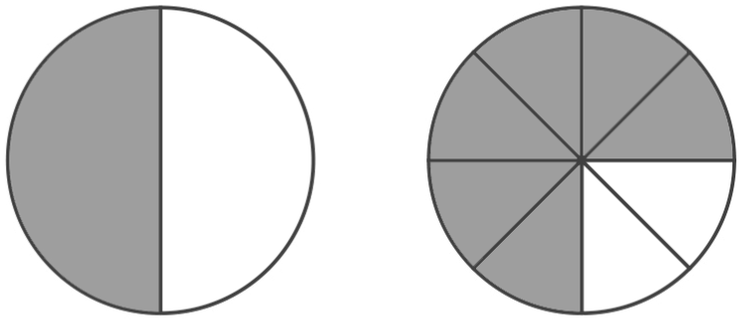
$\frac{1}{2} > \frac{1}{4}$



$\frac{3}{4} > \frac{1}{3}$



$\frac{6}{12} < \frac{3}{5}$

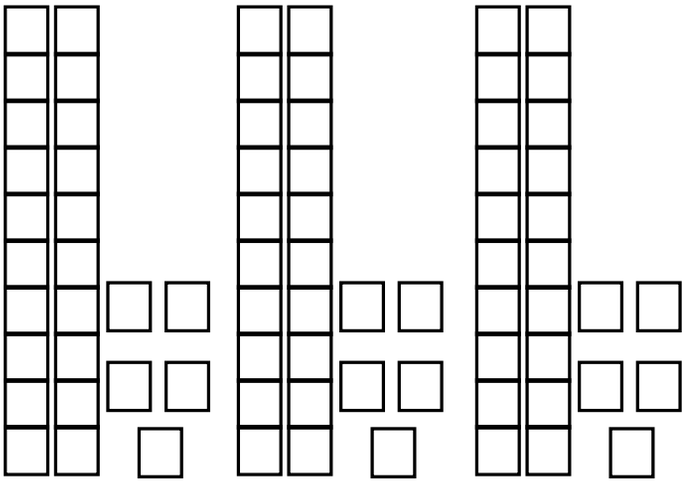


$\frac{1}{2} < \frac{6}{8}$

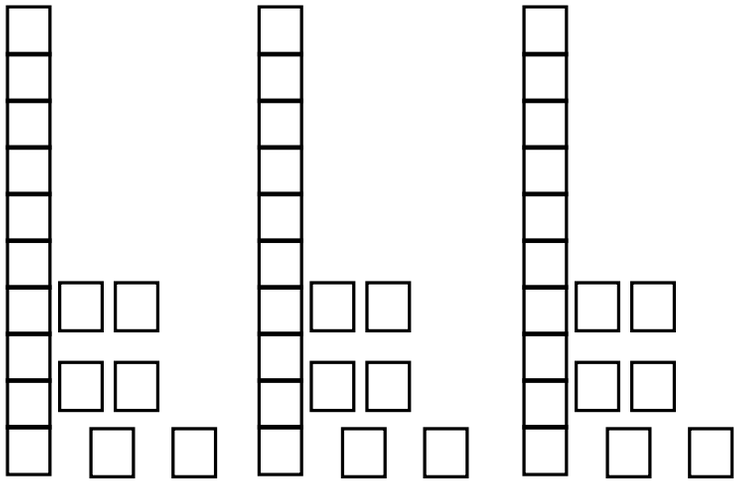
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

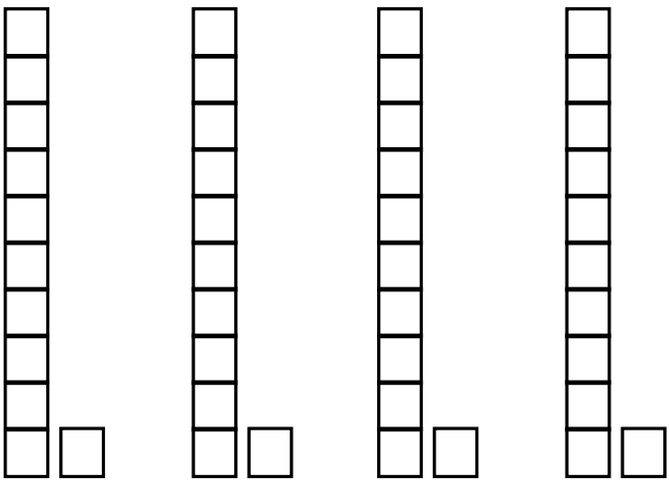
3 x 25 = 75



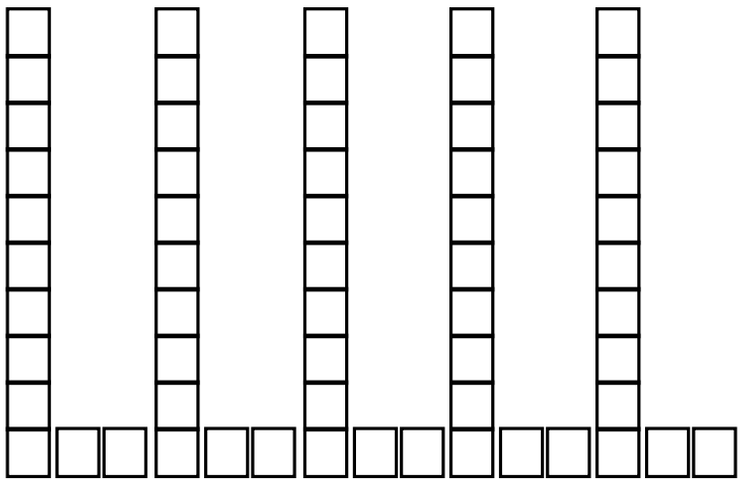
3 x 16 = 48



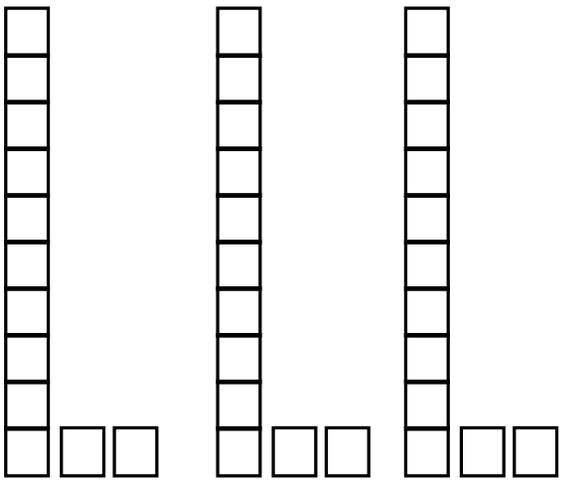
4 x 11 = 44



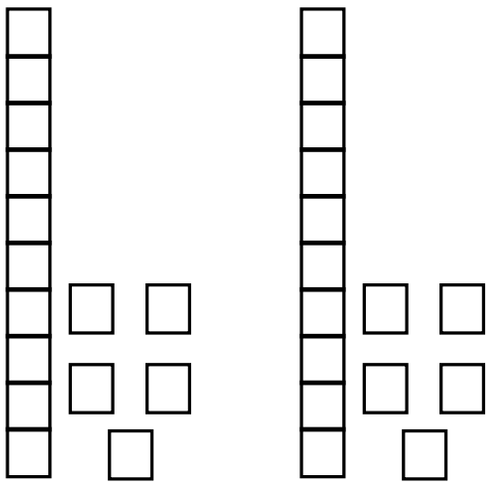
5 x 12 = 60



3 x 12 = 36



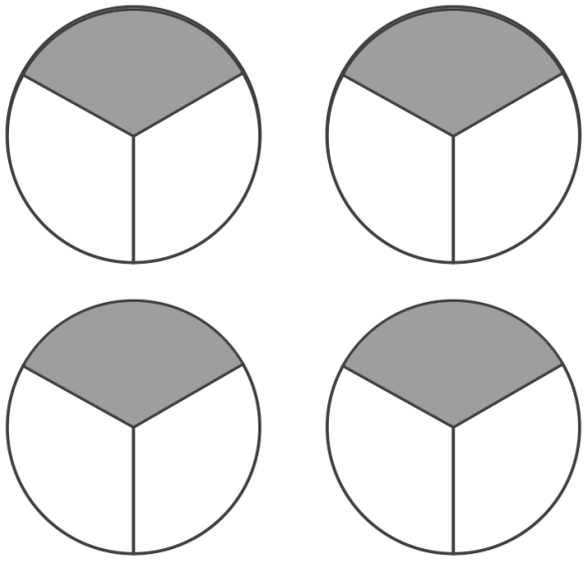
2 x 15 = 30



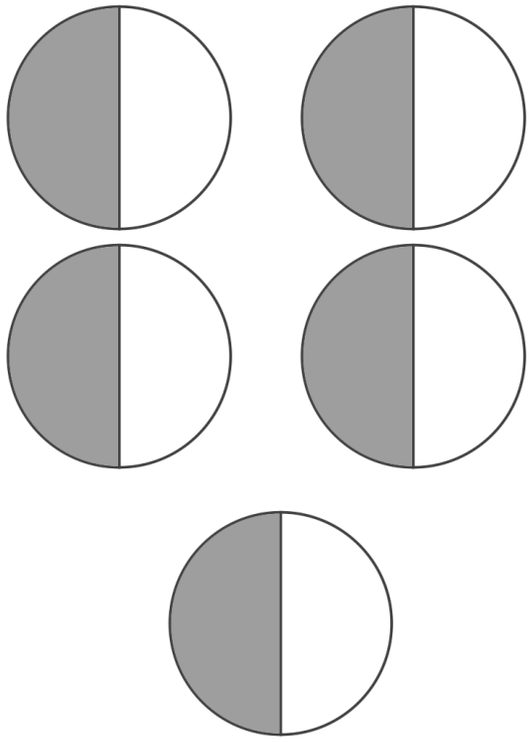
WEEK 3

VISUALIZING MULTIPLICATION OF FRACTIONS COLOR AND SOLVE

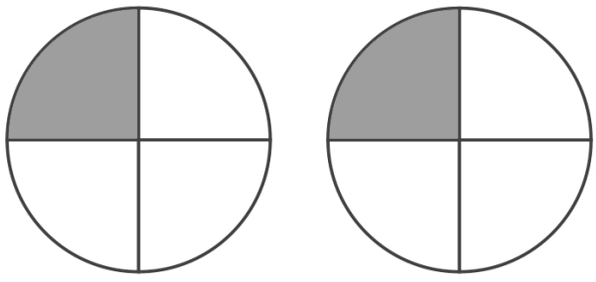
$4 \times \frac{1}{3} = \frac{4}{3}$



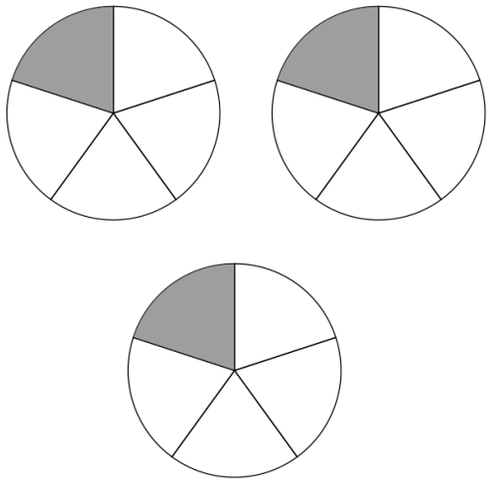
$5 \times \frac{1}{2} = \frac{5}{2}$



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



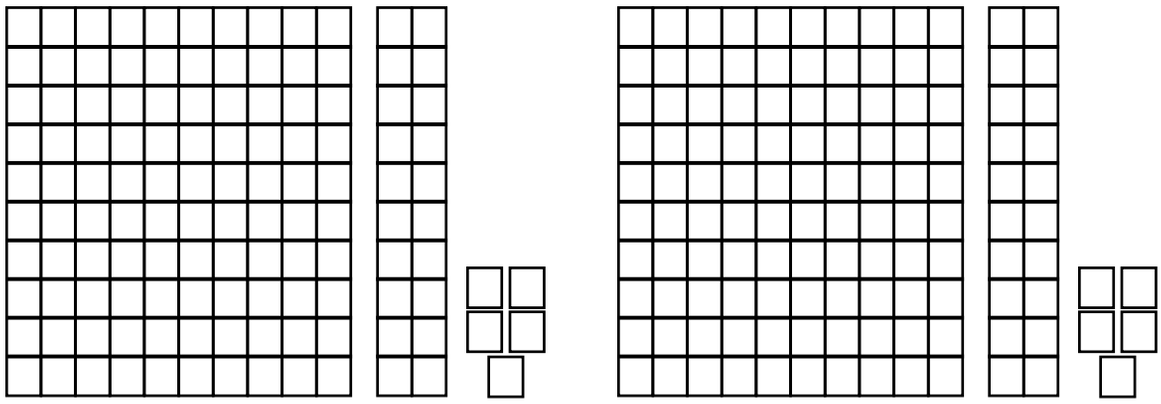
$3 \times \frac{1}{5} = \frac{3}{5}$



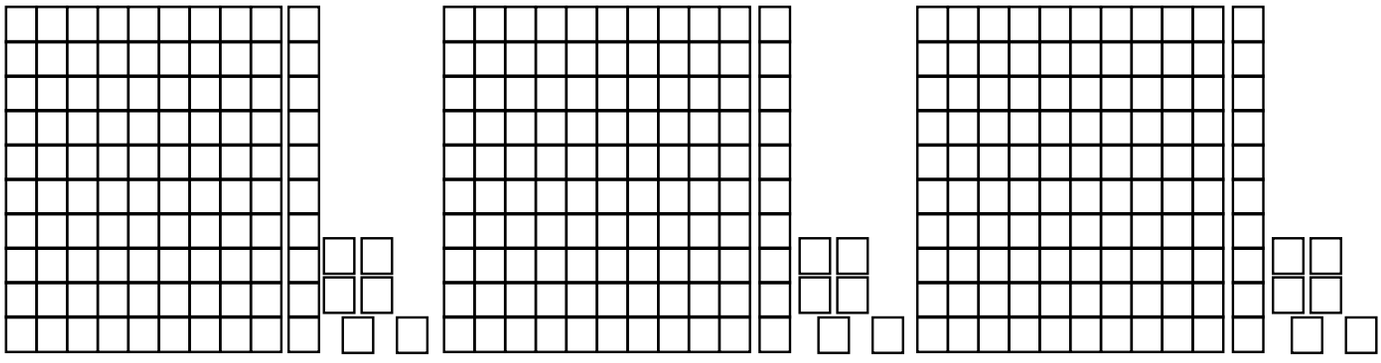
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

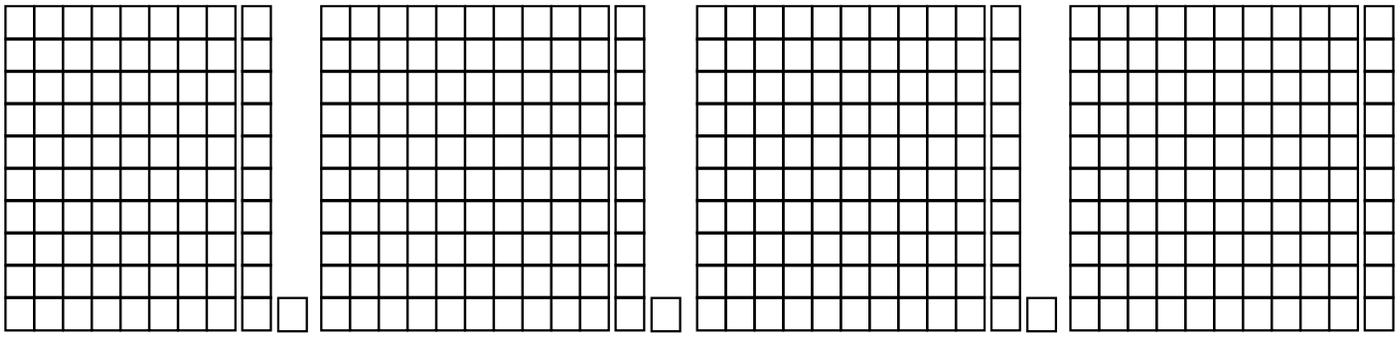
2 x 125 = 150



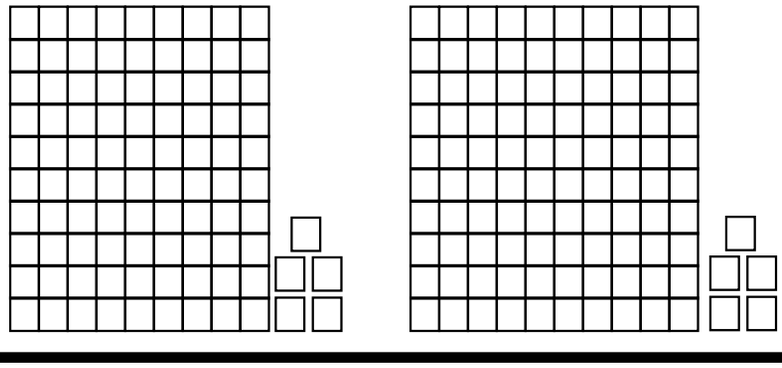
3 x 116 = 348



4 x 111 = 444



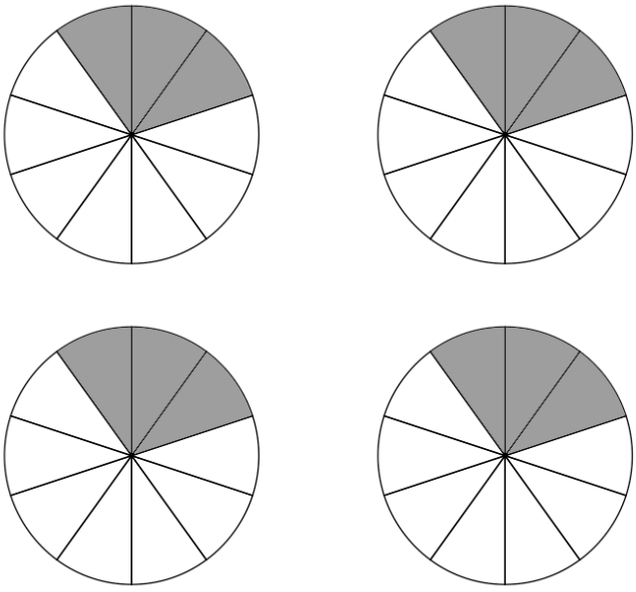
2 x 105 = 210



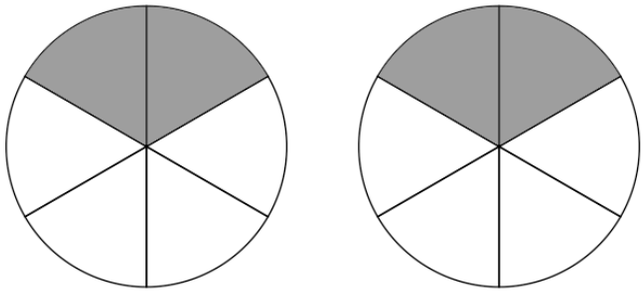
WEEK 4

VISUALIZING MULTIPLICATION OF FRACTIONS COLOR AND SOLVE

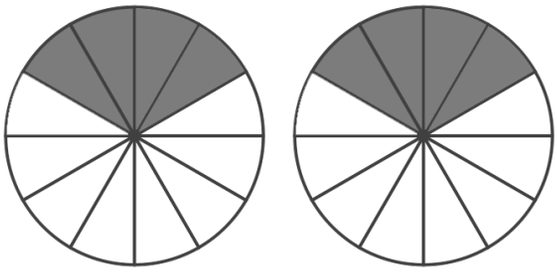
$4 \times \frac{3}{10} = \frac{12}{10}$



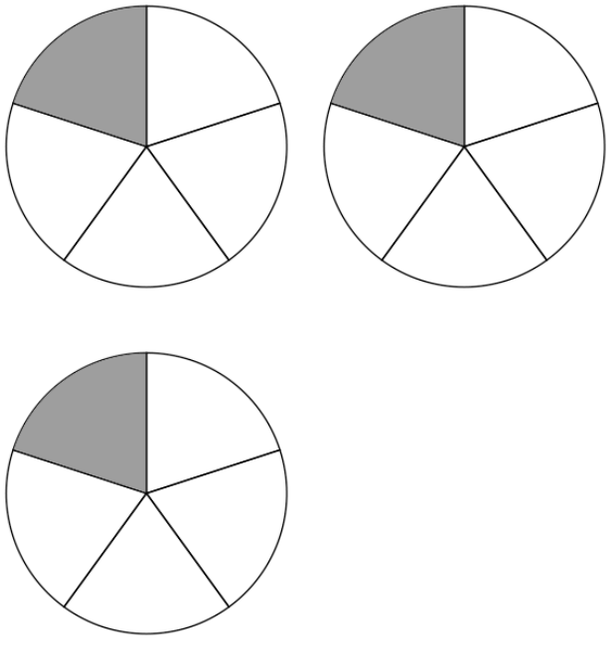
$2 \times \frac{2}{6} = \frac{4}{6}$



$2 \times \frac{4}{12} = \frac{8}{12}$



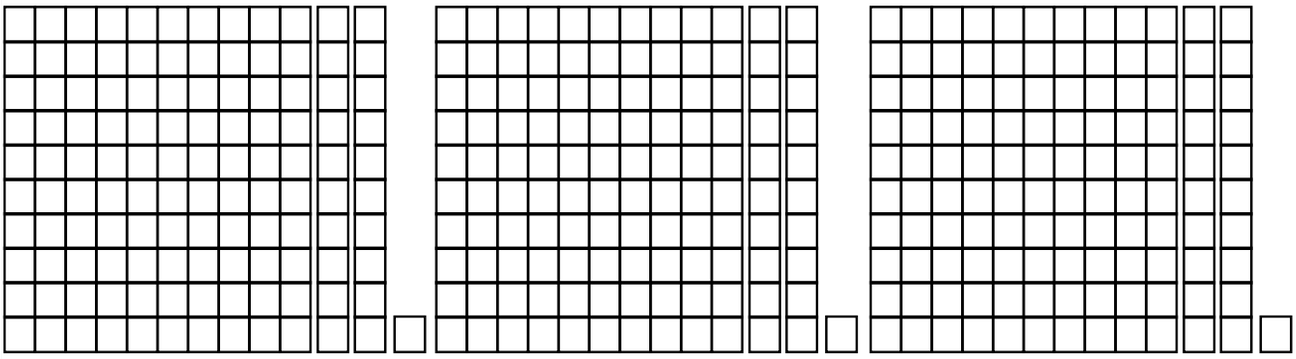
$3 \times \frac{1}{5} = \frac{3}{5}$



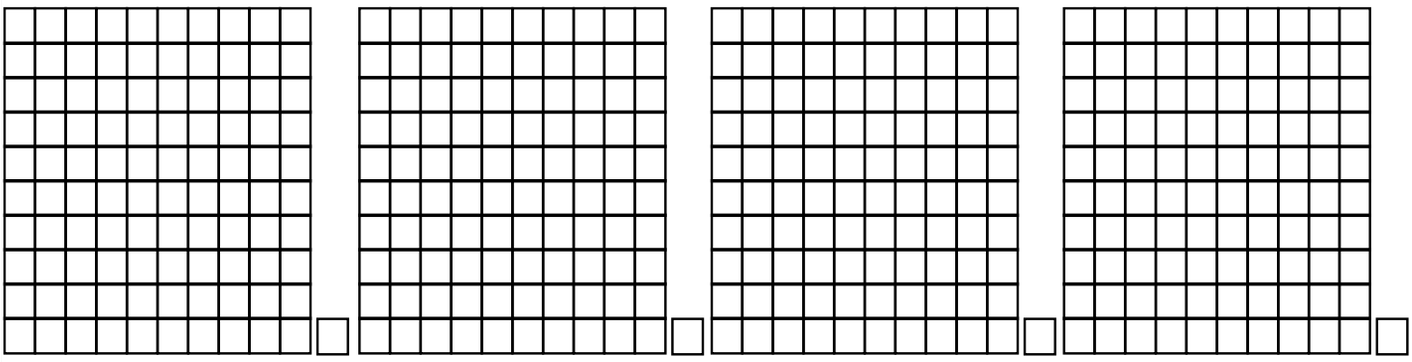
VISUALIZING MULTIPLYING

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

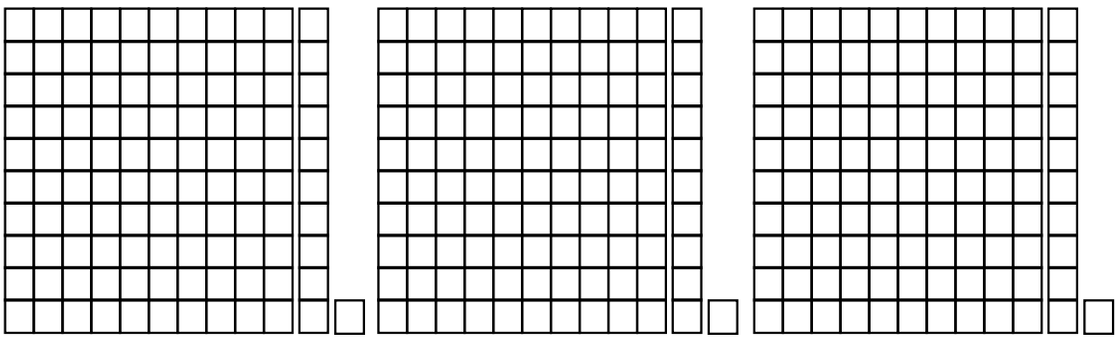
3 x 121 = 363



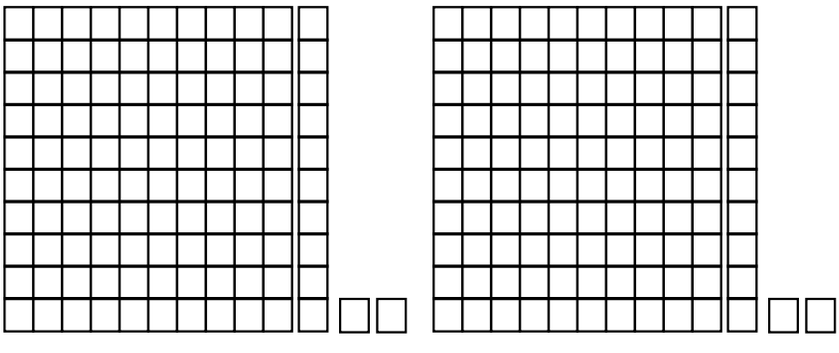
4 x 101 = 404



3 x 111 = 333



2 x 112 = 224

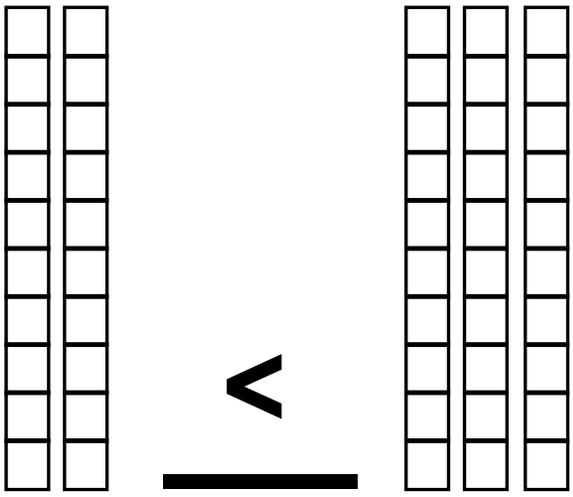


WEEK 5

COMPARING DECIMALS

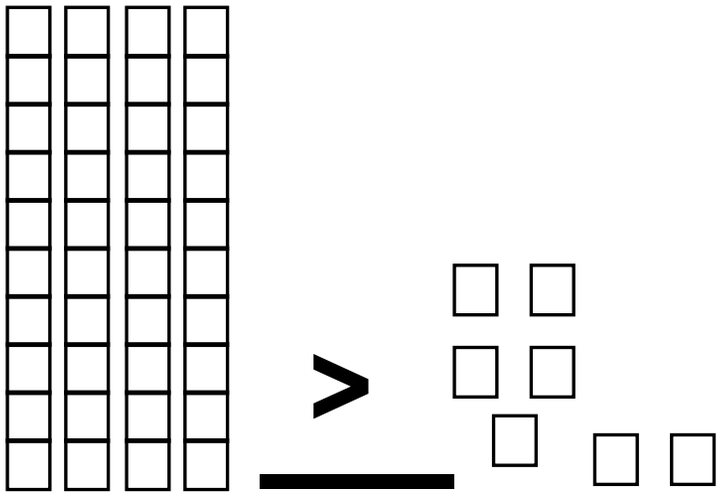
USE THE MODELS TO VISUALIZE AND COMPARE THE PROBLEMS.

.20 and .30



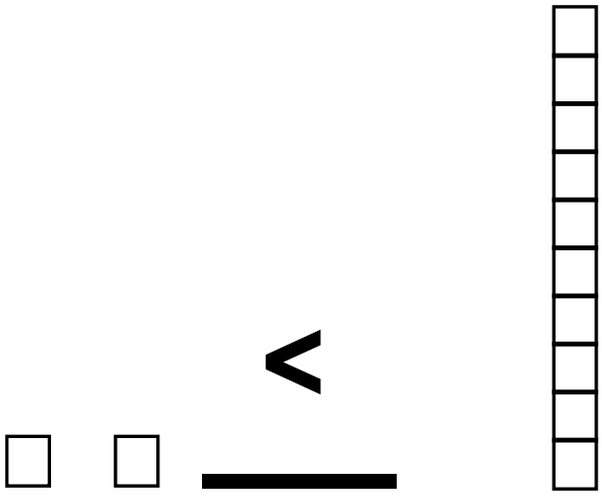
> < =

.40 and .07



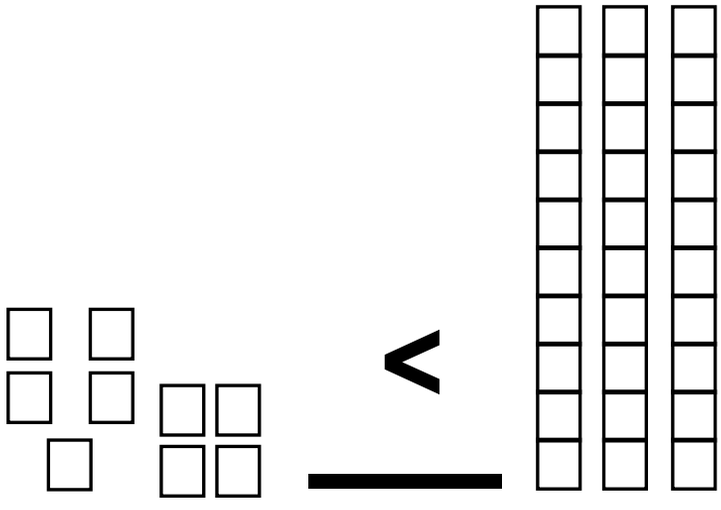
> < =

.02 and .1



> < =

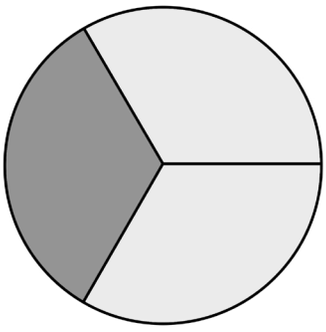
.09 and .30



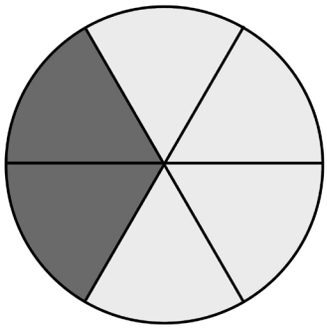
> < =

FINDING EQUIVALENT FRACTIONS

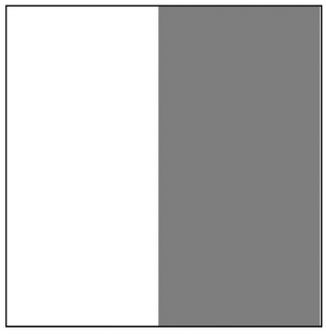
USE THE MODELS TO VISUALIZE THE ANSWER.



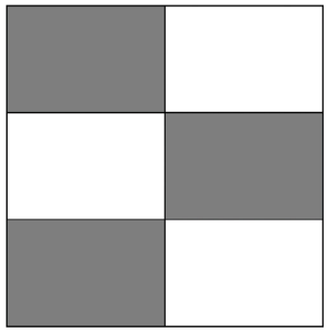
$\frac{1}{3}$



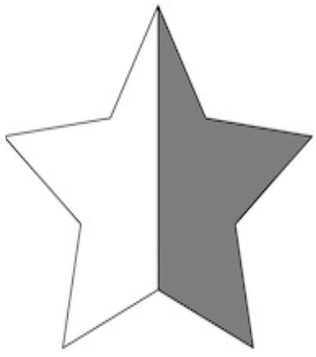
$\frac{2}{6}$



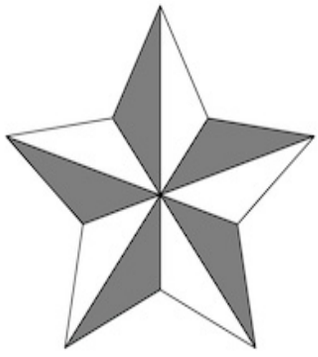
$\frac{1}{2}$



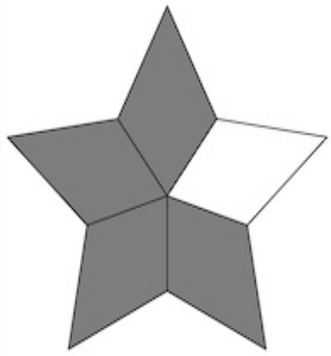
$\frac{3}{6}$



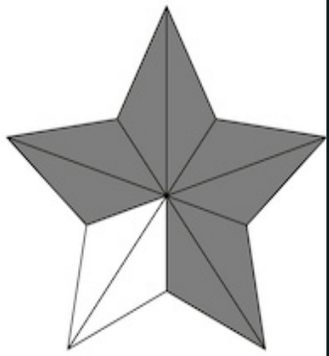
$\frac{1}{2}$



$\frac{5}{10}$



$\frac{4}{5}$

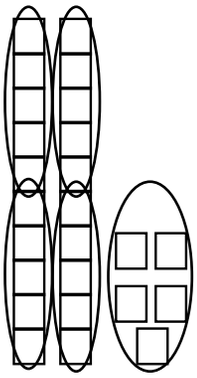


$\frac{8}{10}$

VISUALIZING DIVISION

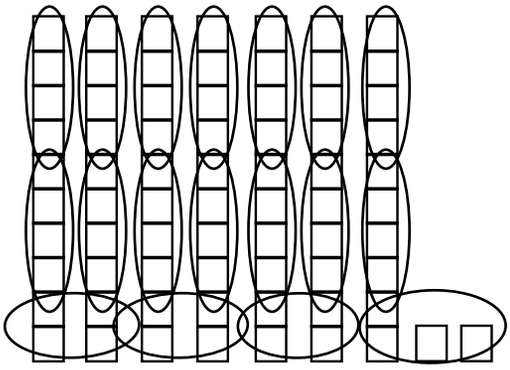
USE THE MODELS TO VISUALIZE THE ANSWER.

25 ÷ 5 = 5

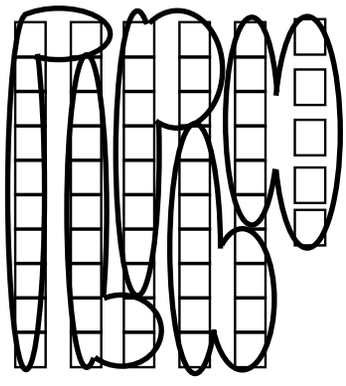


(Hint: Circle groups of 5)

72 ÷ 4 = 18



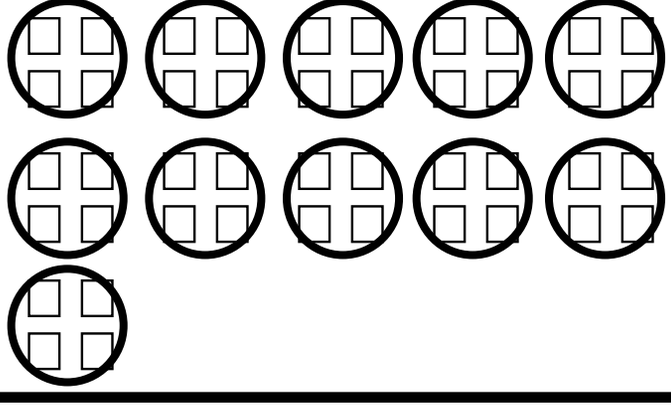
55 ÷ 11 = 5



(Hint: Circle 11 groups of 5)

44 ÷ 4 = 11

Use the sketches to figure this problem out.

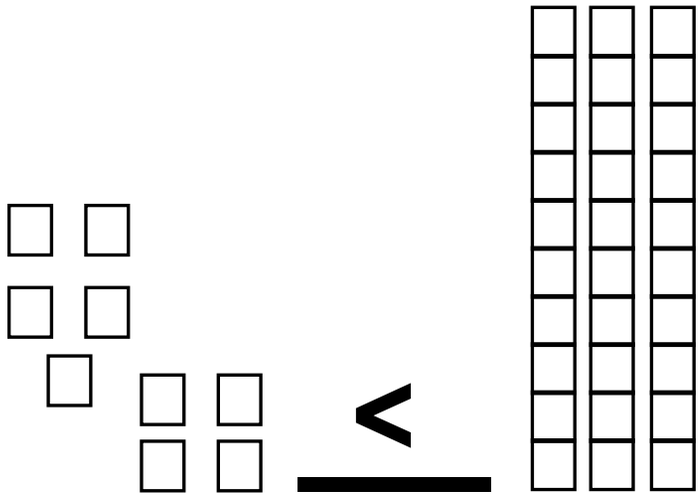


WEEK 6

COMPARING DECIMALS

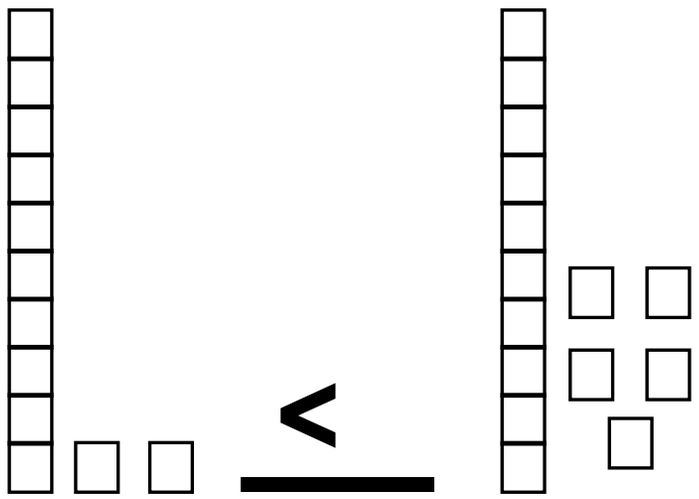
USE THE MODELS TO VISUALIZE AND COMPARE THE PROBLEMS.

.09 and .3



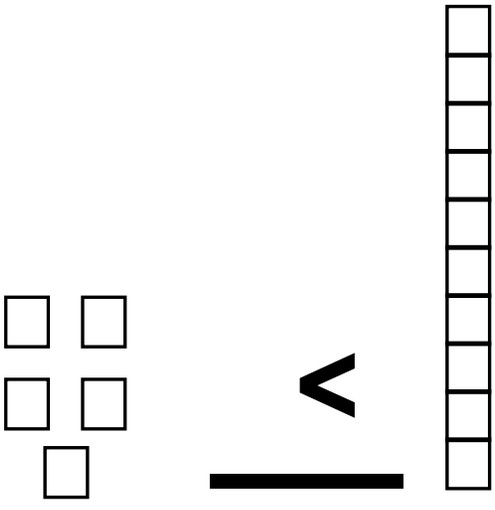
> < =

.12 and .15



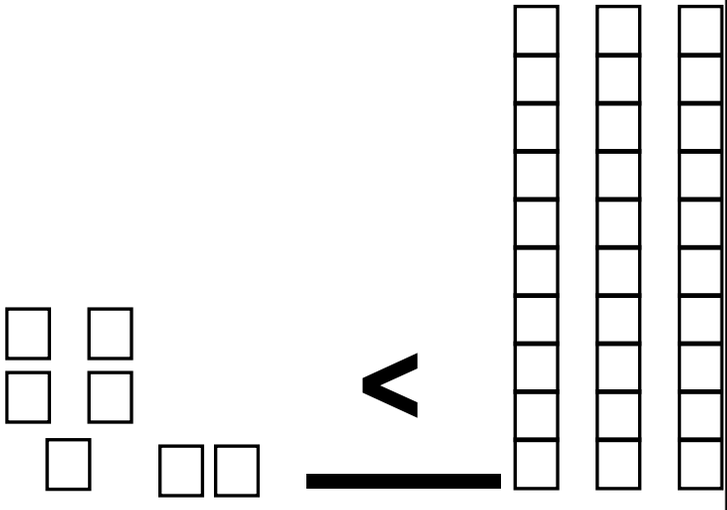
> < =

.05 and .1



> < =

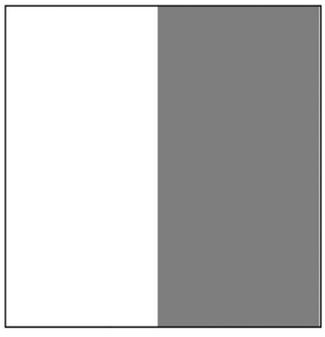
.07 and .3



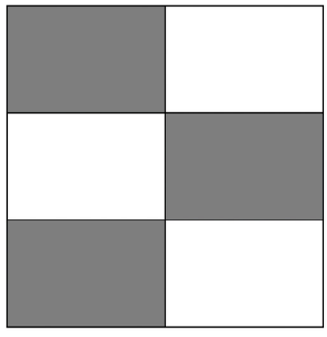
> < =

FINDING EQUIVALENT FRACTIONS

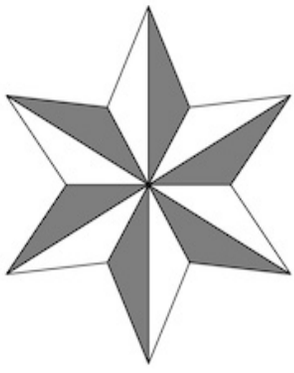
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.



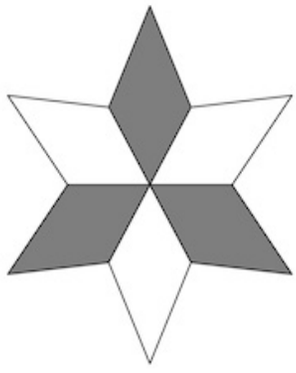
$\frac{1}{2}$



$\frac{3}{6}$

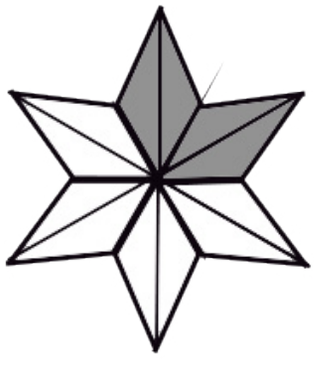


$\frac{6}{12}$

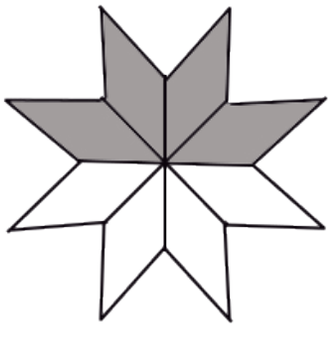


$\frac{3}{6}$

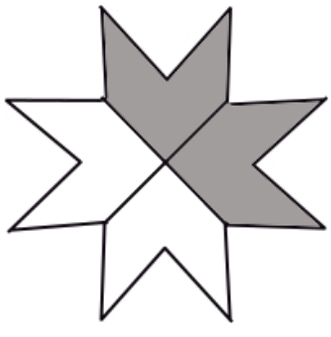
$\frac{2}{6}$



$\frac{4}{12}$



$\frac{4}{8}$



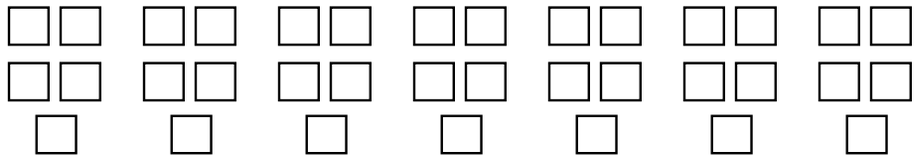
$\frac{2}{4}$

VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

35 ÷ 5 = 7

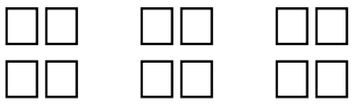
The bakery had 35 donuts. They put 5 in a box. How many boxes did they use?



(Hint: Circle groups of 5)

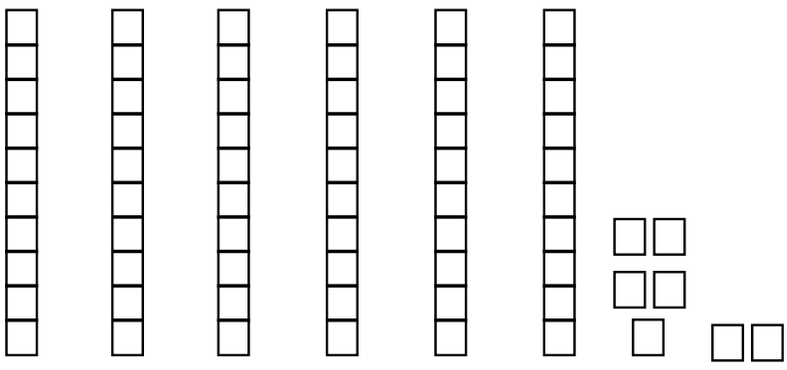
12 ÷ 4 = 3

The bakery had 12 pies. They put 4 in a box. How many boxes did they use?



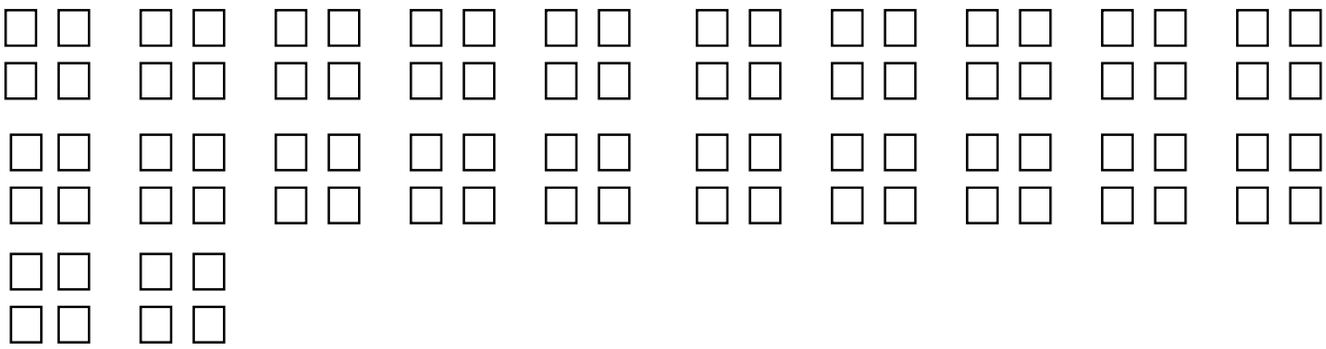
77 ÷ 7 = 11

Think 70 ÷ 7 and then 7 ÷ 7 !



80 ÷ 4 = 20

The bakery had 80 cookies. They put 4 in a box. How many boxes did they use?
Use the sketches to figure this problem out.

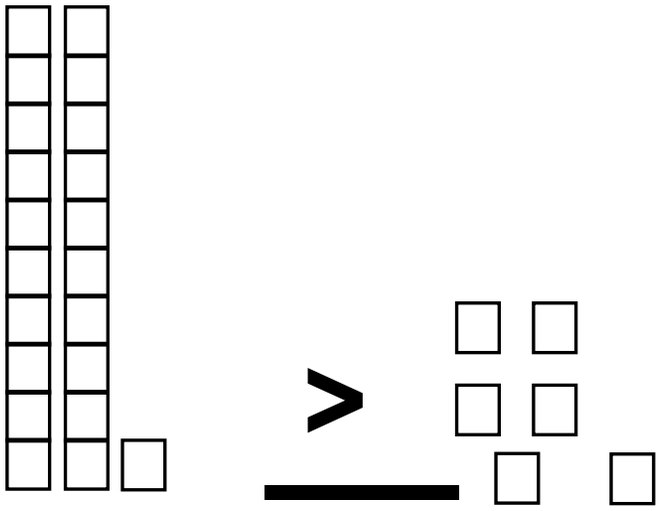


WEEK 7

COMPARING DECIMALS

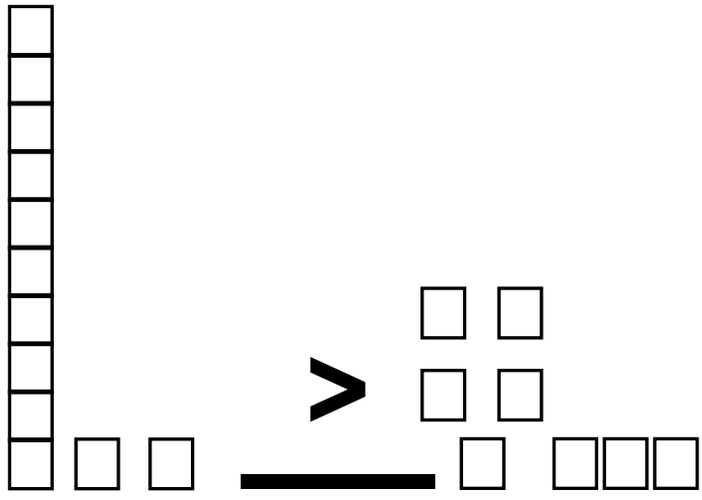
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

.21 and .06



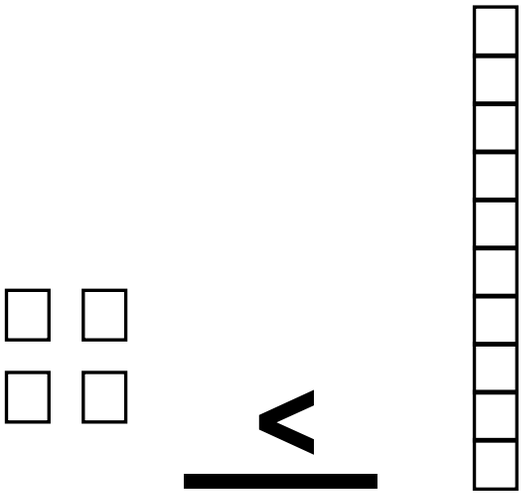
> < =

.12 and .08



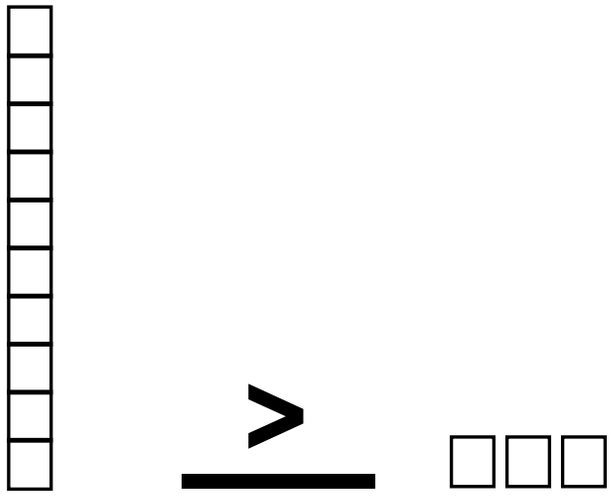
> < =

.04 and .1



> < =

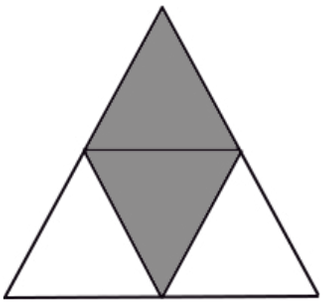
.1 and .03



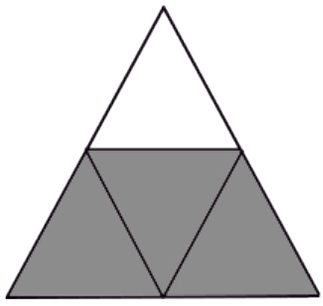
> < =

FINDING EQUIVALENT FRACTIONS

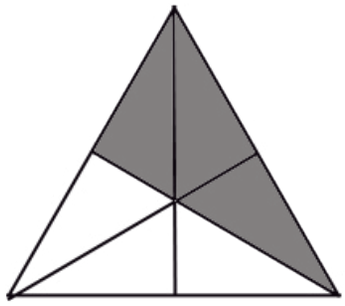
USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.



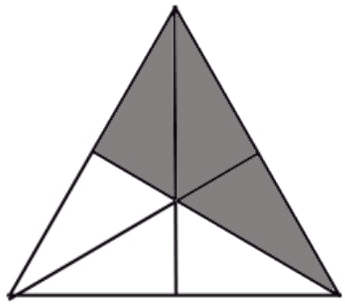
$\frac{2}{4}$



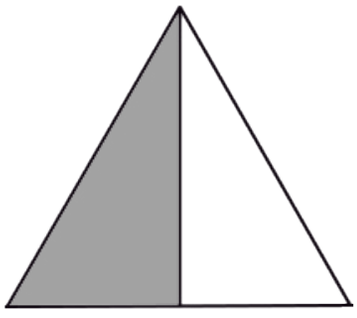
$\frac{3}{4}$



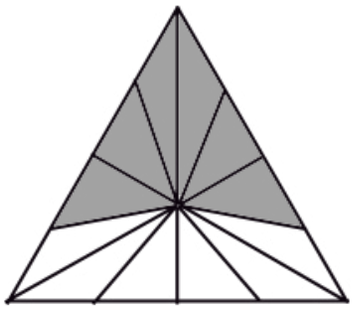
$\frac{3}{6}$



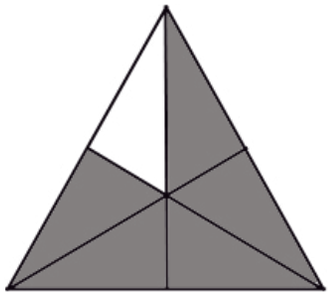
$\frac{3}{6}$



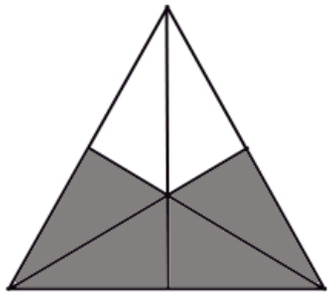
$\frac{1}{2}$



$\frac{6}{12}$



$\frac{5}{6}$



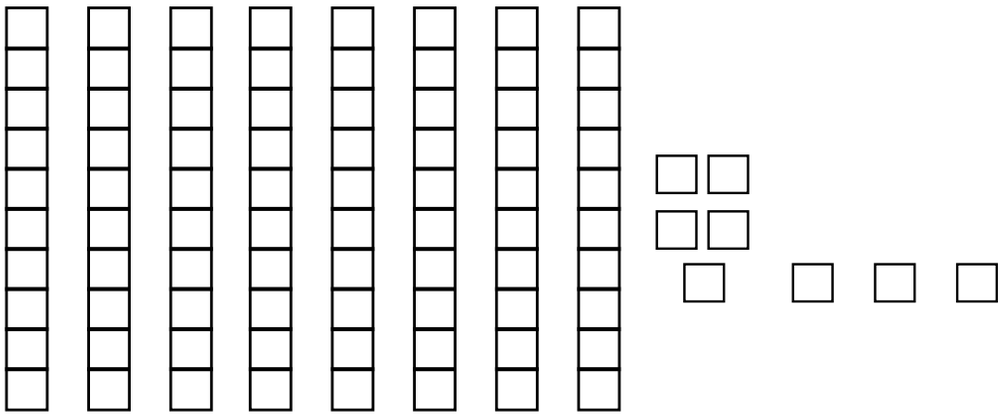
$\frac{4}{6}$

VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE AND SOLVE THE PROBLEMS.

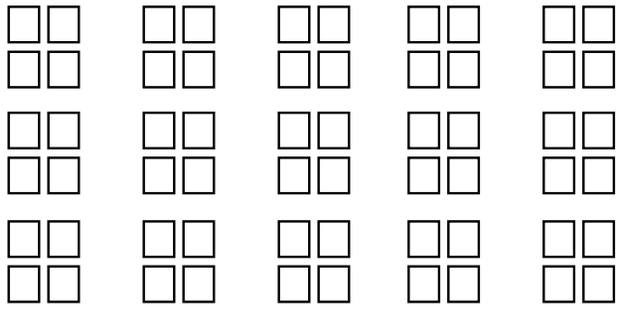
88 ÷ 8 = 11

Think 80 ÷ 8 and then 8 ÷ 8.



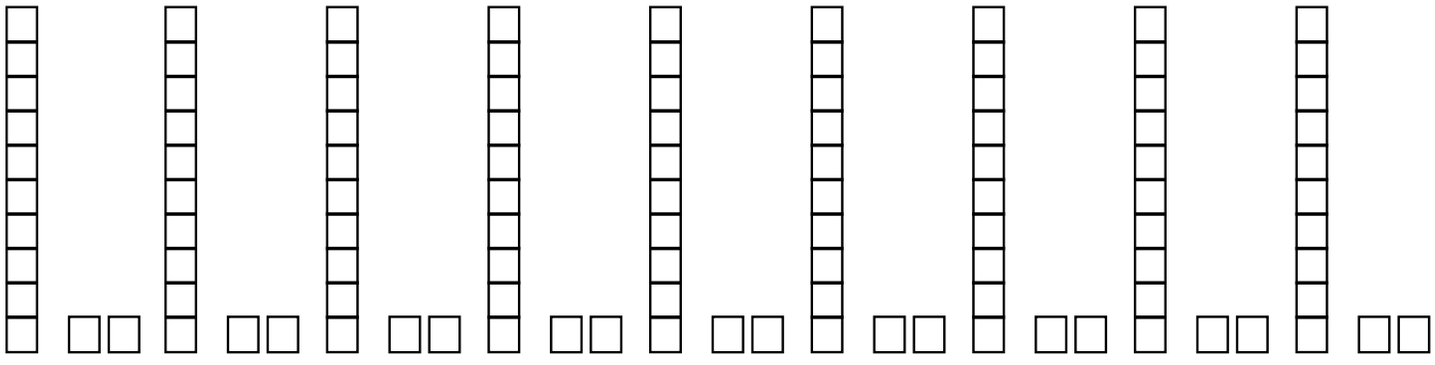
60 ÷ 4 = 15

The bakery had 60 cookies. They put 4 in a box. How many boxes did they use?
Use the sketches to figure this problem out.



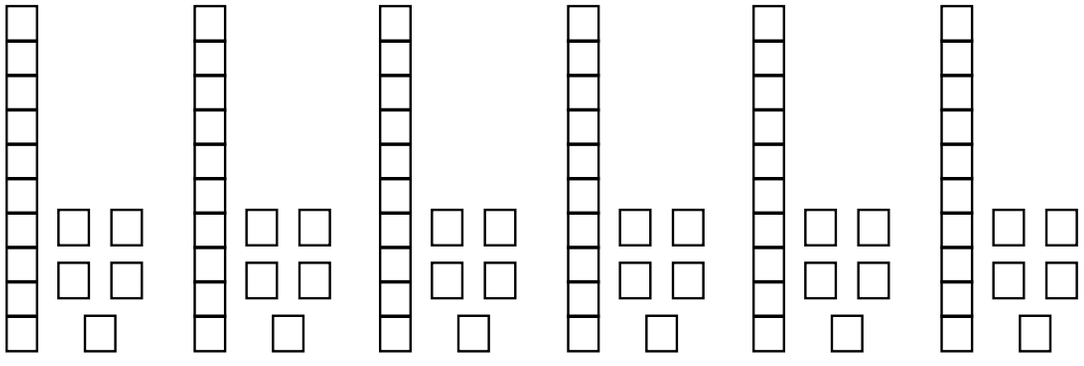
108 ÷ 12 = 9

There were 108 marbles. The store put 12 in a box. How many boxes did they use?



90 ÷ 15 = 6

There were 90 donuts. The baker put 15 in a box. How many boxes did they use?

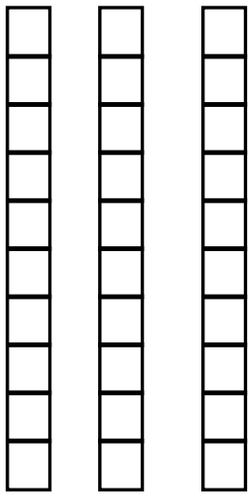


WEEK 8

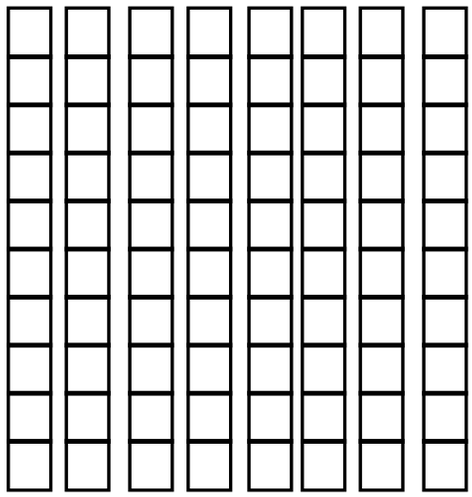
DECIMAL ADDITION ACTIVITY

USE THE MODELS TO VISUALIZE THE ANSWER. COLOR EACH ADDEND IN A DIFFERENT COLOR.

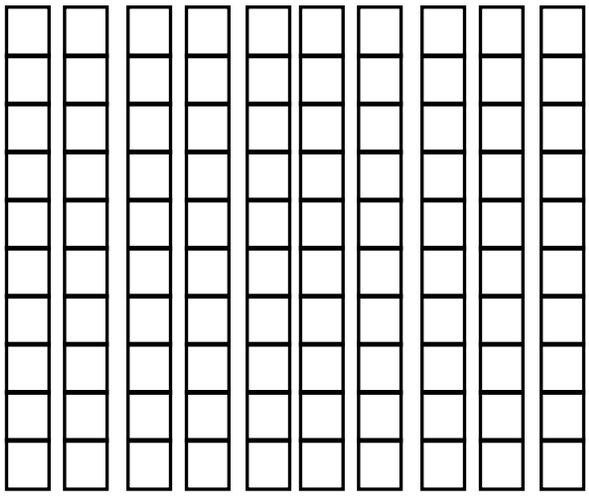
$\frac{1}{10} + \frac{2}{10} = \frac{3}{10}$



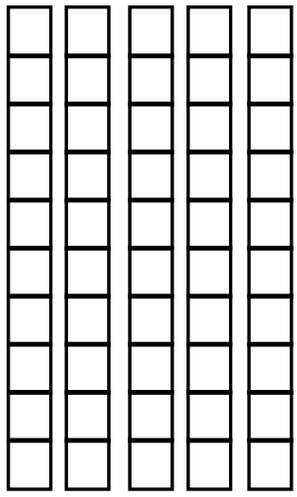
$\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$



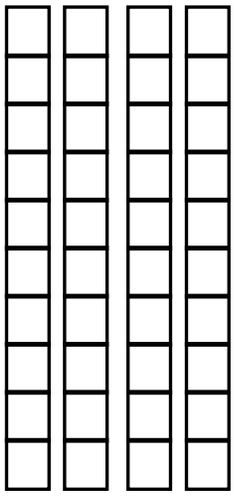
$\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$



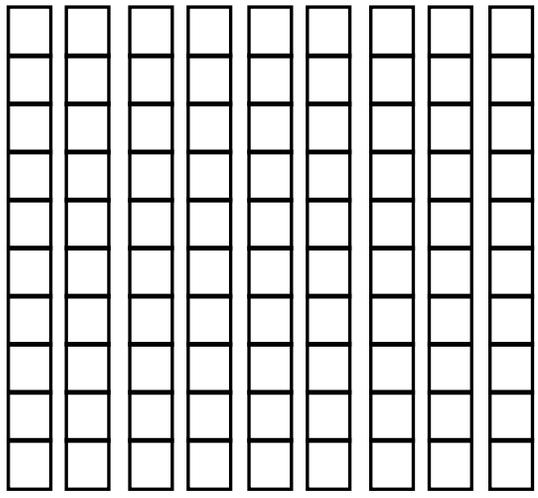
$\frac{3}{10} + \frac{2}{10} = \frac{5}{10}$



$\frac{2}{10} + \frac{2}{10} = \frac{4}{10}$



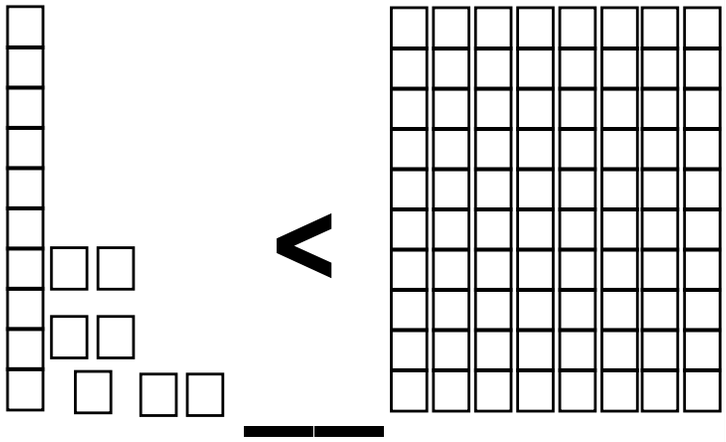
$\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$



COMPARING DECIMALS

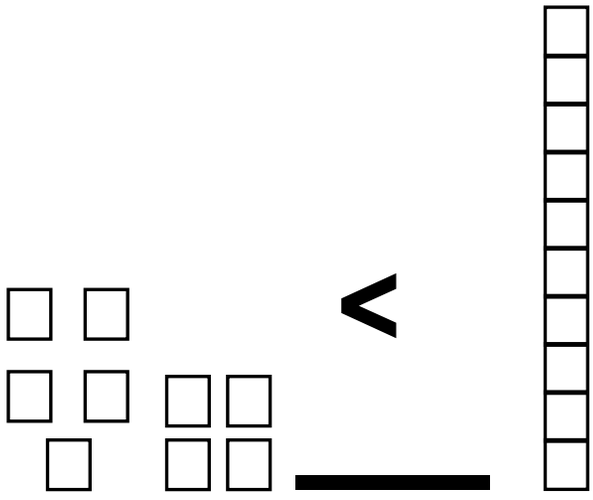
USE THE MODELS TO COMPARE THE DECIMALS.

.17 and .8



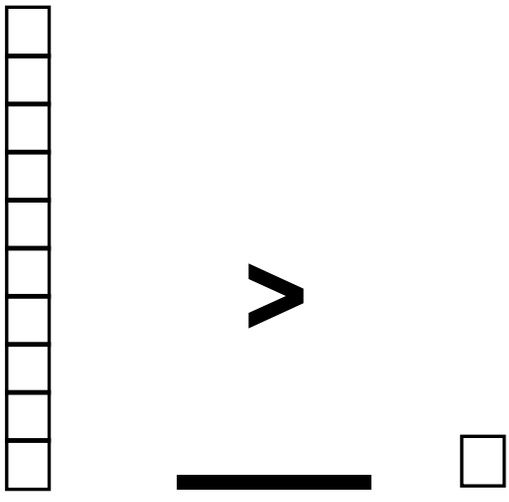
> < =

.09 and .1



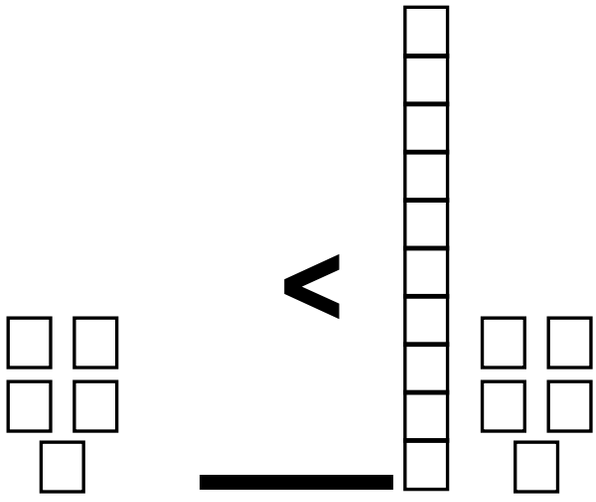
> < =

.1 and .01



> < =

.05 and .15

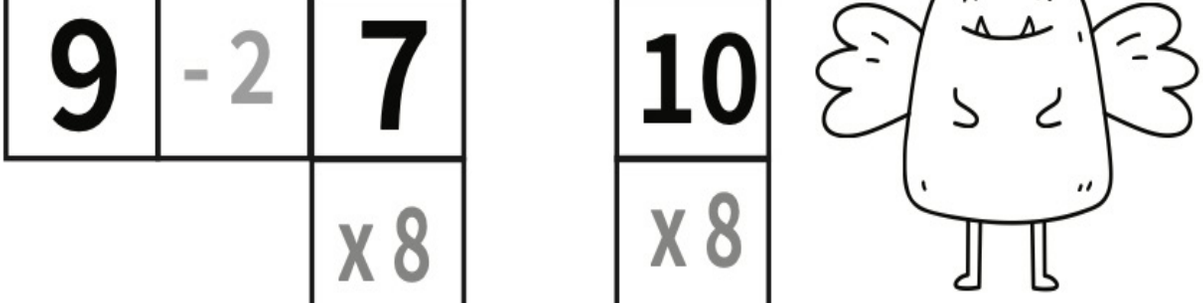


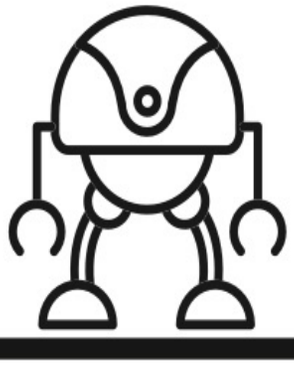
> < =

NUMBER CROSSWORD PUZZLES

Fill in the missing number to make the equation true.

2	x 8	16	- 7	9	x 8	72
		- 9		+1		
9	- 2	7		10		
		x 8		x 8		
32	+24	56		80	- 5	75
		+6		-77		
		62		3	x 8	24



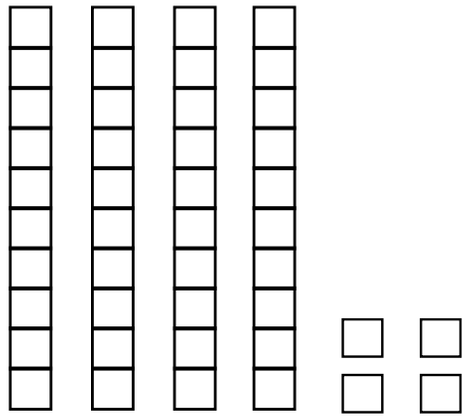


VISUALIZING DIVISION

USE THE MODELS TO VISUALIZE THE PROBLEMS.

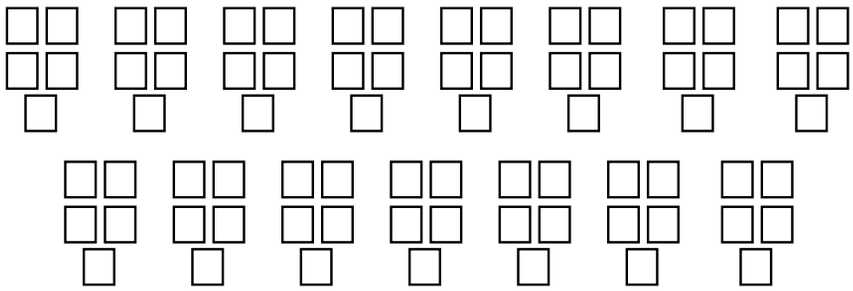
44 ÷ 4 = 11

Think 40 ÷ 4 and then 4 ÷ 4.



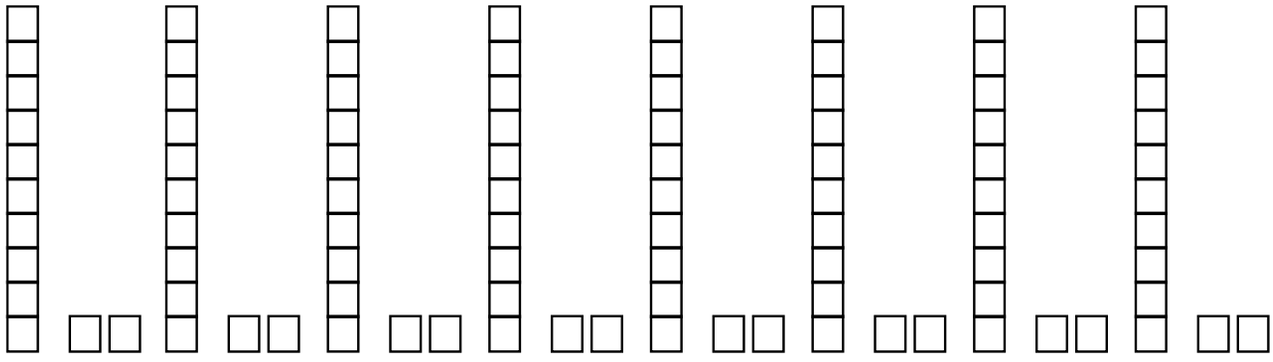
90 ÷ 5 = 18

The bakery had 90 cookies. They put 5 in a box. How many boxes did they use?
Use the sketches to figure this problem out.



96 ÷ 12 = 8

There were 96 marbles. The store put 12 in a box. How many boxes did they use?



75 ÷ 15 = 5

There were 75 donuts. The baker put 15 in a box. How many boxes did they use?