FACTORS, MULTIPLES, AND PRIME AND COMPOSITE NUMBERS

4th Grade



MagiCORE

Printable & Google Slides


IDENTIFYING MULTIPLES
Cookie sheet multiples
NAME:
DATE:
Directions: Bake some delicious cookies by identifying multiples. For each number given, list
FINDING FACTORS
Factor pair cut and paste
NAME:
DATE:
Directions: Cut out all the factors at the bottom of the page. Identify all the
FINDING FACTORS
NAME:
DATE:
finding
FACTOR PAIRS
pair is two numbers that you can
gether to make a product
24
PRIME & COMPOSITE NUMBERS
star maze
NAME:
DATE:
Directions: Help Allen Astronaut find his way back to planet Earth! Find a path through the stars
From Allen to Earth by only passing through prime numbers. Color each prime number star as
you go through it. Can Allen make it back home?
49
12
37
70
5
13
41
29
18
99
81
63
FINDING FACTORS
factor pair scoops
Directions: Find one factor pair of the number on each ice cream cone. Write each factor on an ice cream scoop.
1
18
2
24
3
30


NAME:
DATE:
IDENTIFYING MULTIPLES
Cookie sheet multipl
Directions: Bake some delicious cookies
6 multiples, one on each
1
4
2
NAME:
FINDING
Directions: Cut out all the
of each number below and p
1 24
Factors:
1 2 3
6 8 12
3 48
Factors:
1 2 3 4
8 12 16 24
5 35
Factors:
1 5 7 35
7 63
Factors:
1 3 7
9 21 63
48 1 2 35 2 12 3 3
3 7 16 6 1 21
24 12 4 9 16
NAME:
DATE:
FINDING FACTORS
Factor pair
shows all its
Directions: Draw a line to match the flower wi
factor pairs.
1 21
2 24
3 12
4 18
5
6
finding
FACTOR P
A fact
two numbers t
make a
NAME:
PRIME & COMPO
star ma
Directions: Help Allen Astronaut find his way back to pl
from Allen to Earth by only passing through prime numbe
you go through it. Can Allen make it back home?
37
49
12
13
34
70
5
29
27
23
41
99
51
81
63
67
19
9
14


finding
FACTOR PAIRS
A factor pair is two numbers that you can multiply together to make a product
product
24
1 24
2 12
3
4
Factor pairs
11
1 11
NAME:
PRIME &
Directions: Help Allen Astronaut find his
from Allen to Earth by only passing throug
you go through it. Can Allen make it back hom
37
49
12
13
34
70
5
41
99
63
14
9
DATE:
DING FACTORS
tor pair cut and paste
ors at the bottom of the page. Identify all the factor
te the factors into the spaces.
2 27
Factors: 1 3 9 27
4
24
FINDING FACTORS
factor pair garden
Directions: Match the flower with the watering can that shows all its factor pairs. Drag the watering can to its matching flower.
21
24
12
18
25
56
1, 2, 4, 7, 8, 14, 28, 56
1, 2, 3, 6, 9, 18
1, 2, 3, 4, 6, 12
1, 3, 7, 21
1, 2, 3, 4, 6, 8, 12, 24
1, 5, 25
DATE:
G FACTORS
pair garden
ower with the watering can that shows all its
A
1, 2, 3, 4, 6, 8, 12, 24
B
1, 2, 3, 6, 9, 18
C
1, 5,
D
F
56
DATE:
IDENTIFYING MULTIPLES
Cookie sheet multiples
Directions: Bake some delicious cookies by identifying multiples. For each number given, 6 multiples, one on each cookie on the cookie sheet. Yum!
1
6
2
5
3
9
4
2
5
7


NAME: DATE:
FINDING FACTORS
Directions: I
factor pair
NAME: DATE:
FINDING FACTORS
Factor pair
Directions: Cut out all the factors at the b
of each number below and paste the factor
1 24
Factors: 1 2 3 4 6 8 12 24
3 48
Factors: 1 2 3 4 6 8 12 16 24 48
5 35
Factors: 1 5 7 35
7 63
Factors: 1 3 7 9 21 63
NAME: DATE:
IDENTIF NG MULTIPLES
Directions: Bake some delicious
6 multiples, one on each cook
1 6
NAME:
PRIME & COMPOSITE NU
Directions:
from Allen
you go thr
finding
FACTOR PAI
A factor pair is two numbers that you
together to make a product
product
24
1 24
2 12
3 8
4 6
factor
Factor pairs can be written in a T-chart...
30
1 30
2 15
3 10
5 6
48
1 48
2 24
3 16
4 12
6 8
....or as a list
Factors of 30:
1, 2, 3, 5, 6, 10,
15, 30
Factors of 48:
1, 2, 3, 4, 6, 8,
12, 16, 24, 48
Factors of 15:
1, 3, 5, 15
FINDING FACTORS
factor pair drag & drop
Directions: Identify all the factor pairs of each number below. Drag the factors from the bottom of the slide into the spaces.
3 48
4 6
1 1 2 2 3 3 4 6
6 8 12 16 24 48


NAME:
DATE:
FINDING FACTORS
Factor pair garden
Directions: Draw a line to match the flower with the watering can that shows all factor pairs.
1
21
2
24
3
4
5
A
1, 2, 3, 4, 6
12, 24
B
1, 2, 3, 6, 9,
NAME:
FINDING
Factor pair
Directions: Cut out all the factors at the b
of each number below and paste the fact
1 24
Factors: 1 2 3 4 6 8 12 24
3 48
Factors: 1 2 3 8 12 16
5 35
Factors: 1 5 7
7 63
Factors: 1 3 9 21
48 1 2 35
1 3 2 24 7
3 5 32 24 27
NAME:
PRIME & C
Directions: Help Allen Astronaut
from Allen to Earth by only pas
you go through it. Can Allen ma
49
34
27
67
finding
FACTOR PAIR
A factor pair is two numbers that you co
together to make a product
product
24
1 24
2 12
3 8
4 6
factors
Factor pairs can be written in a T-chart...
11
1 11
30
1 30
2 15
3 10
5 6
48
1 48
2 24
3 16
4 12
6 8
15
1 15
3 5
....or as a list
Factors of 11:
1, 11
Factors of 30:
1, 2, 3, 5, 6, 10,
15, 30
Factors of 48:
1, 2, 3, 4, 6, 8,
12, 16, 24, 48
Factors
1, 3


NAME: DATE:
FINDING FACTORS
Factor pair garden
Directions: Draw a line to match the flower with the watering can that shows all its factor pairs.
NAME: DATE:
FINDING FACTORS
Factor pair cut and paste
Directions: Cut out all the factors of each number below and paste
1 24
Factors: 1 2 3 6 8 12
3 48
Factors: 1 2 3 8 12 16
5 35
Factors: 1 5 7
7 63
Factors: 1 3 7 9 21 63
48 1 2 35 2 12 3 3 4 1 4 8 1 3 2
1 3 2 24 7 16 6 1 21 63 8 1 6 9 3
3 5 32 24 27 12 4 9 16 7 1 8 6 1 9
IDENTIFYING MULTIPLES
Venn diagram
Directions: Drag, sort and place the numbers into the correct area of the Venn diagram.
Multiples of 2
Multiples of 5
92 80 56
45 38 8
10 12 85
15 35 65
40 20 90
78 30 75
25 100 42
©Kelli Bixler
IDENTIFYING MULT
Cookie sheet multiples
Directions: Bake some delicious cookies by identifying multiples. For e
6 multiples, one on each cookie on the cookie sheet. Yum!
6
5
ITE NUM
18
29
12
5
49
99
70
41
34
63
23
81
9
27
67
19

FACTORS, MULTIPLES, AND PRIME AND COMPOSITE NUMBERS

4th grade

Table of Contents

1. Anchor Charts (3 pages)
2. Finding Factor Pairs Worksheets (7 pages)
3. Finding Factor Pairs Games and Activities (6 pages)
4. Identifying Multiples Worksheets (9 pages)
5. Identifying Multiples Games and Activities (4 pages)
6. Prime and Composite Numbers Worksheets (3 pages)
7. Prime and Composite Numbers Games and Activities (4 pages)
8. Test Review (4 pages)
9. Test (4 pages)



Thank you for purchasing this MagiCore Learning digital resource!

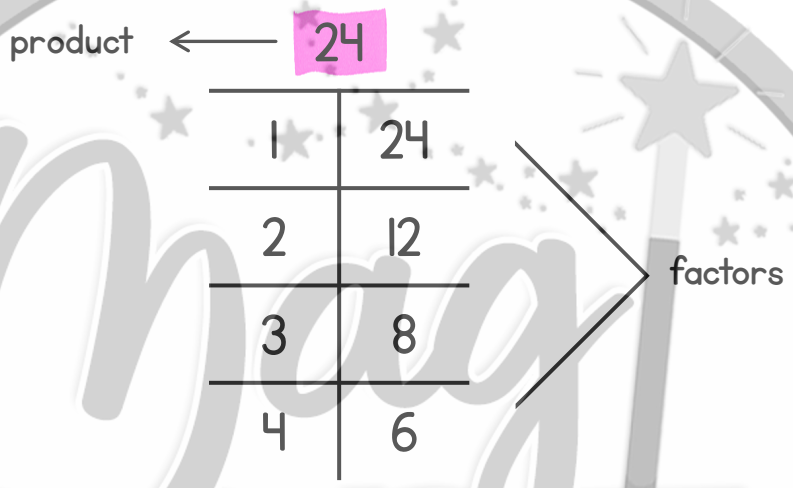
The Google Slides version of this resource requires that you make a copy of the resource to your own Google Drive.

* You MUST have a Google account in order to access this resource. Click HERE if you need help setting up a Google account.

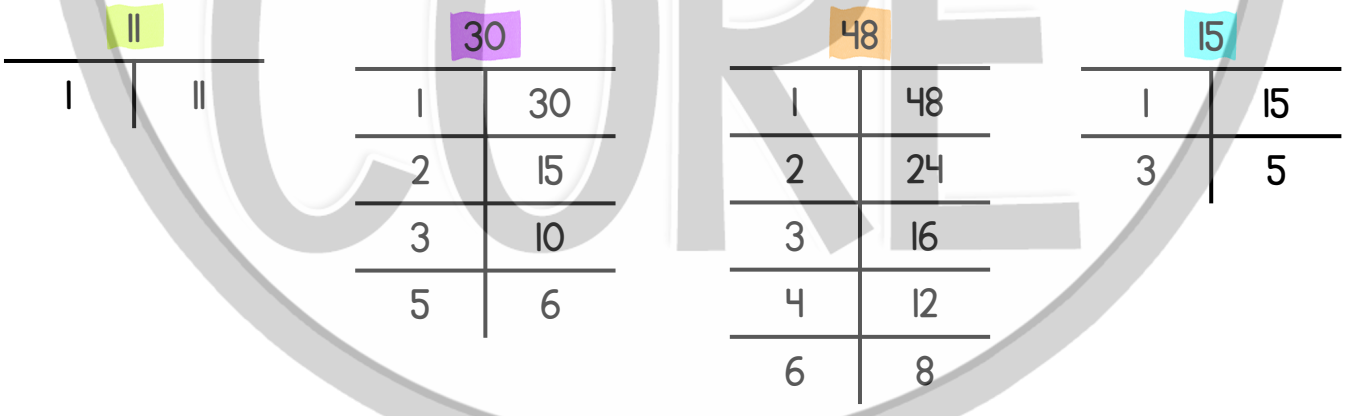
finding

FACTOR PAIRS

A **factor pair** is two numbers that you can multiply together to make a product



Factor pairs can be written in a **T-chart...**



....or as a **list**

Factors of 11:
1, 11

Factors of 30:
1, 2, 3, 5 ,6, 10, 15, 30

Factors of 48:
1, 2, 3, 4 ,6, 8, 12, 16, 24, 48

Factors of 15:
1, 3, 5, 15

©Julie Bachrach

identifying

MULTIPLES

A **multiple** is the product of a given number and any other number.

You can find multiples by skip counting.

Multiples of 3

3, 6, 9, 12, 15, 18, 21, 24, 27, 30...

(3 x 1) (3 x 2) (3 x 3) (3 x 4) (3 x 5) (3 x 6) (3 x 7) (3 x 8) (3 x 9) (3 x 10)

Multiples of 5

5, 10, 15, 20, 25, 30, 35, 40, 45, 50...

(5 x 1) (5 x 2) (5 x 3) (5 x 4) (5 x 5) (5 x 6) (5 x 7) (5 x 8) (5 x 9) (5 x 10)

Multiples of 8

8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96...

Multiples of 9

9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99, 108...

©Julie Bachuse

NAME: _____ DATE: _____

FINDING FACTORS

factor pair scoops

Directions: Find one factor pair of the number on each ice cream cone. Write each factor on an ice cream scoop.

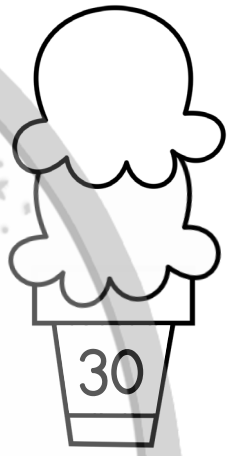
1



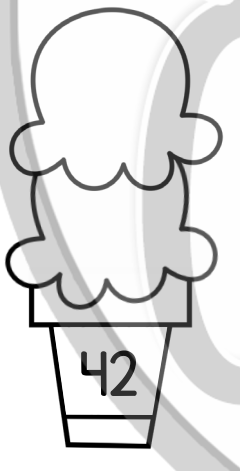
2



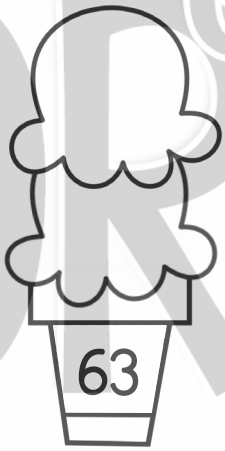
3



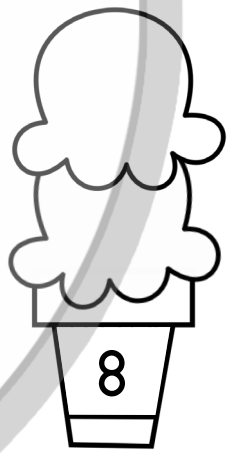
4



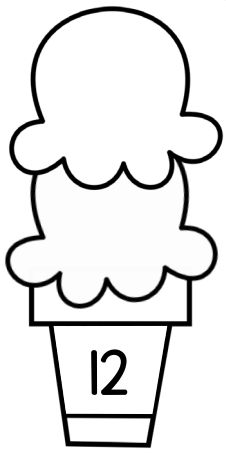
5



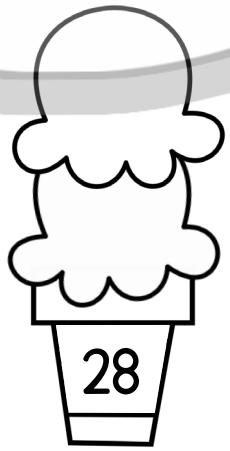
6



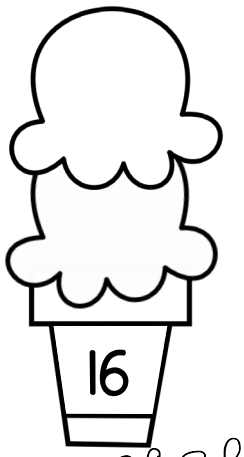
7



8



9



©Julie Bachorz

NAME: _____ DATE: _____

FINDING FACTORS

factor pair cherries

Directions: Find a factor pair of the number on each cherry stem. Write each factor on a cherry.

1. 36



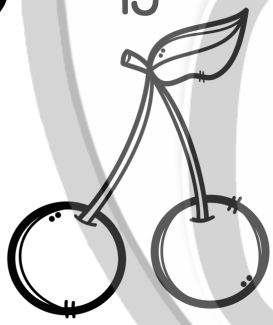
2. 15



3. 32



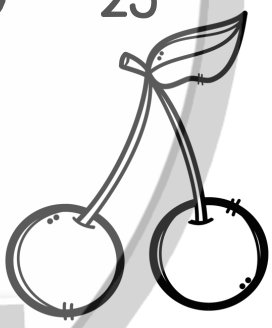
4. 45



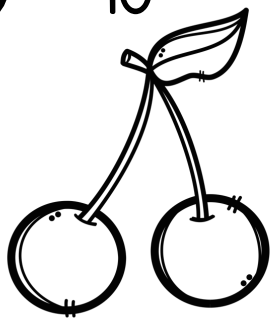
5. 64



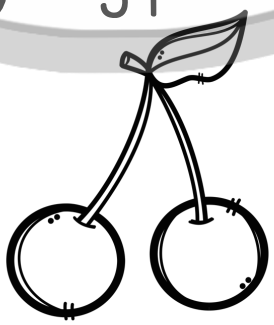
6. 25



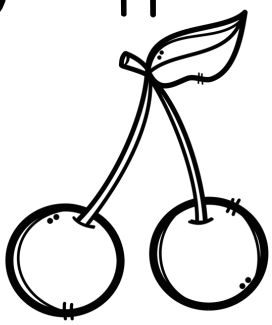
7. 10



8. 54



9. 49



©Julie Bachorz

NAME: _____ DATE: _____

FINDING FACTORS

factor pair t-charts

Directions: Find all factor pairs of each number below. List the factor pairs in the t-chart.

1. 36

2. 64

3. 72

4. 40

5. 9

6. 45

©Julie Bachorz

NAME: _____ DATE: _____

©Gabe Bartos

FINDING FACTORS

factor bullseye

Directions: Cut out the cards on the next page, shuffle, and place face down in a pile. Flip over the top card and in space #1 below, list all the factor pairs of the number on the card. For each of the bullseye numbers that is a factor, earn one point. Repeat with the next cards, then add all your points to find your final score.

1 Number: _____ Factor pairs:  2, 6 Points:	**2** Number: _____ Factor pairs:  3, 8 Points:	**3** Number: _____ Factor pairs:  4, 5 Points:
4 Number: _____ Factor pairs:  2, 9 Points:	**5** Number: _____ Factor pairs:  4, 7 Points:	**6** Number: _____ Factor pairs:  6, 9 Points:
7 Number: _____ Factor pairs:  8, 10 Points:	**8** Number: _____ Factor pairs:  5, 6 Points:	**9** Number: _____ Factor pairs:  4, 8 Points:
10 Number: _____ Factor pairs:  2, 5 Points:	**11** Number: _____ Factor pairs:  6, 10 Points:	**12** Number: _____ Factor pairs:  4, 6 Points:

FINDING FACTORS

factor bullseye

©Gabe Bachas

12	63	20
28	42	40
60	45	27
36	18	10

Magi CORE

NAME: _____ DATE: _____

FINDING FACTORS

factor pair battle

CARD #1

Number: _____

Factor pairs:

Points earned: _____

CARD #2

Number: _____

Factor pairs:

Points earned: _____

CARD #3

Number: _____

Factor pairs:

Points earned: _____

CARD #4

Number: _____

Factor pairs:

Points earned: _____

CARD #5

Number: _____

Factor pairs:

Points earned: _____

CARD #6

Number: _____

Factor pairs:

Points earned: _____

CARD #7

Number: _____

Factor pairs:

Points earned: _____

CARD #8

Number: _____

Factor pairs:

Points earned: _____

Total points: _____

©Julie Bacharz

NAME: _____ DATE: _____

©Julie Backes

IDENTIFYING MULTIPLES

multiples on the hundreds chart

Directions: Choose a number. On the hundreds chart below, shade all multiples of that number.

MULTIPLES OF: ☐

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	92	94	95	96	97	98	99	100

Mag CORE

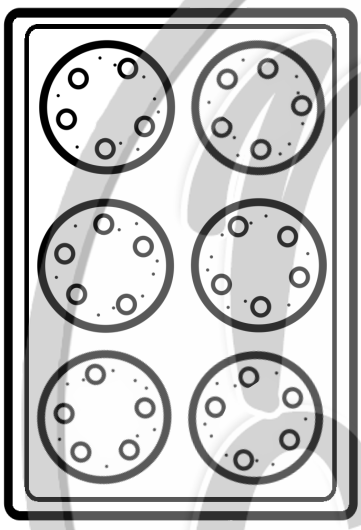
NAME: _____ DATE: _____

IDENTIFYING MULTIPLES

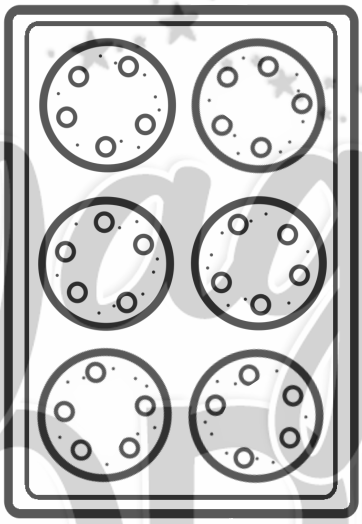
cookie sheet multiples

Directions: Bake some delicious cookies by identifying multiples. For each number given, list 6 multiples, one on each cookie on the cookie sheet. Yum!

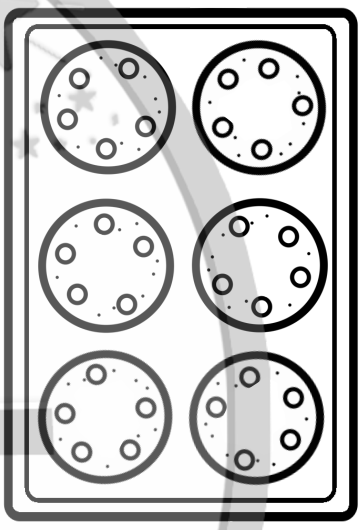
1. 6



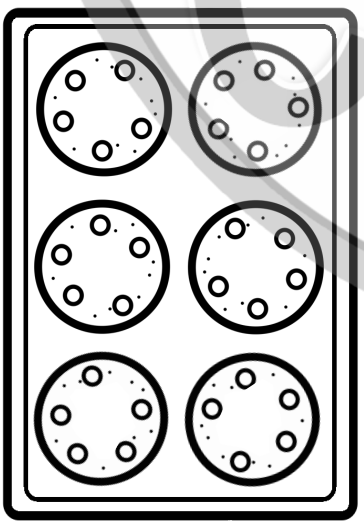
2. 5



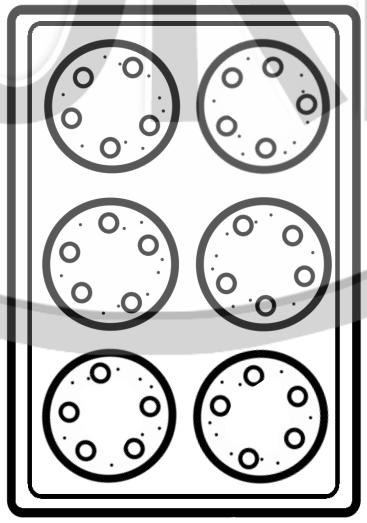
3. 9



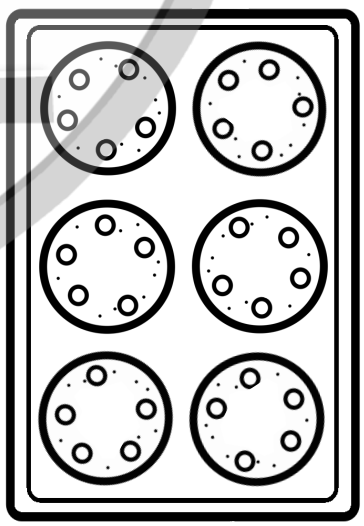
4. 2



5. 7



6. 4



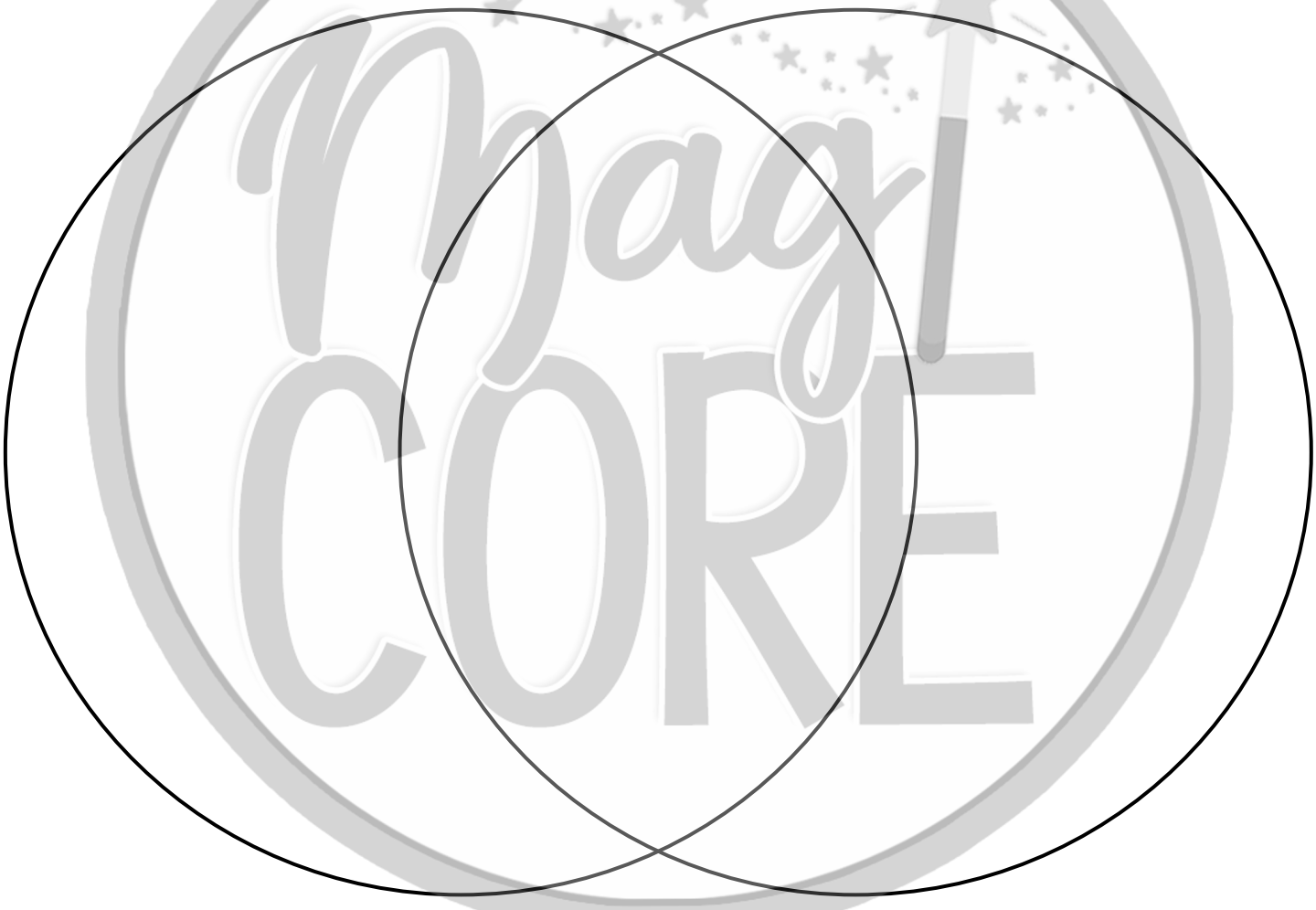
©Julie Bachorz

NAME: _____ DATE: _____

IDENTIFYING MULTIPLES

venn diagram

Directions: Cut out the numbers at the bottom of the page. Sort and place the numbers into the correct area of the Venn diagram.



32	16	6	12	28	24	60
66	48	27	30	8	40	20
21	33	9	72	36	15	44

©Julie Bachrach

NAME: _____ DATE: _____

©Pals' Pockets

IDENTIFYING MULTIPLES

sort the multiples

Directions: Cut out the numbers at the bottom of the page. Shuffle and place face down in a pile. Start a timer. Flip over the first card and place in the correct column. Repeat with the remaining cards. How long does it take you to sort all the cards? Can you beat your time if you play again, or can a friend sort faster?

Multiples of 3	
Multiples of 7	
Multiples of 8	

Pag CORE

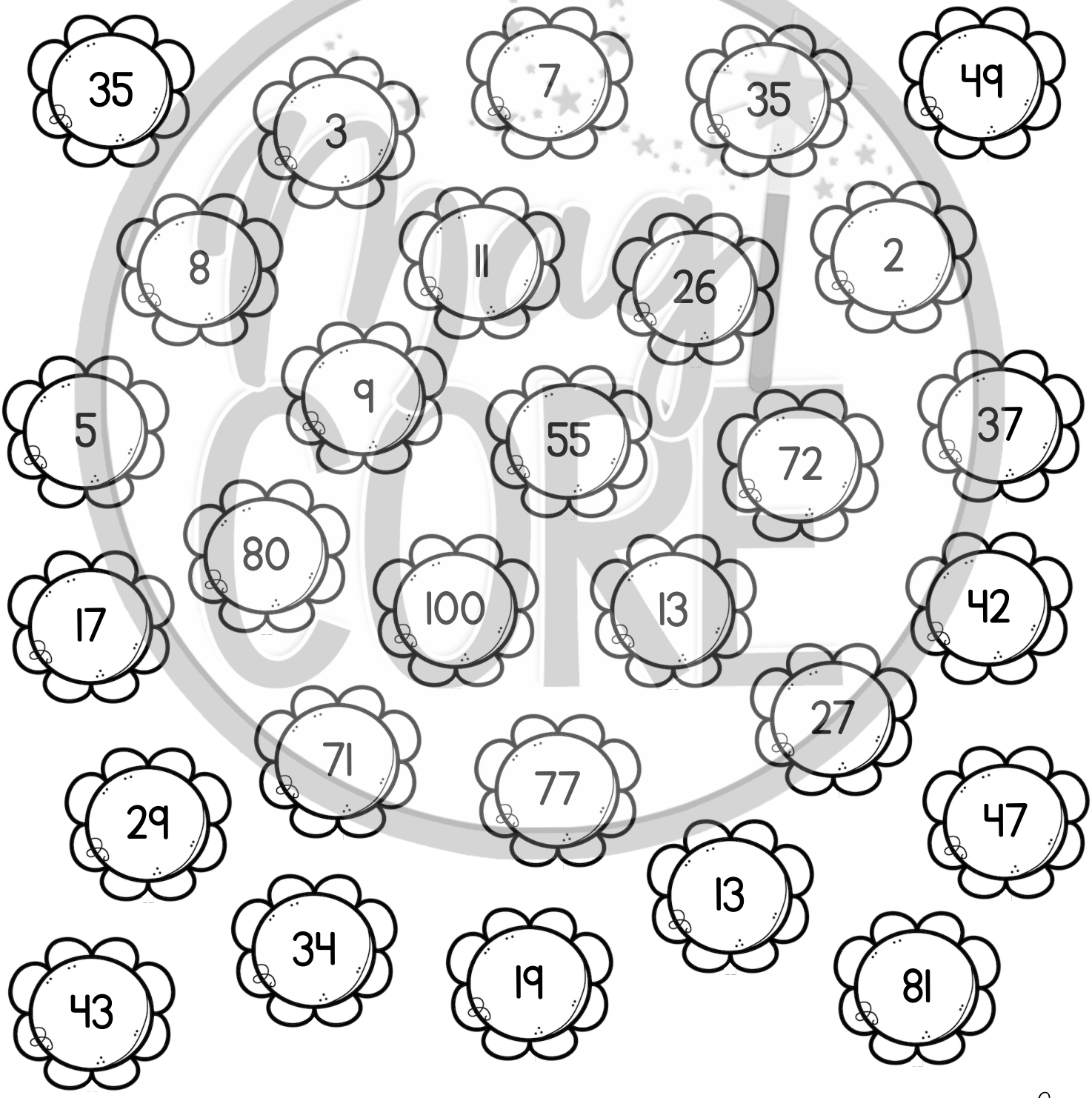
36	16	27	49	28	18	9	77
33	7	99	6	32	64	93	80
70	12	14	40	35	15	8	30

NAME: _____ DATE: _____

PRIME & COMPOSITE NUMBERS

prime number garden

Directions: Look at the numbers in the flowers below. Color the flowers with prime numbers red. Color the flowers with composite numbers yellow.



©Julie Bochorse

Terms of Use

How Can I Use This Resource?

Thank you for trusting MagiCore. Our mission is to create resources that support teachers and promote student success. Please note that this resource is licensed for use by a single teacher in a classroom setting. If you need to use this resource with more than one teacher and/or across multiple classrooms, additional licenses are available at a discount. You can purchase additional licenses by visiting your TPT "Purchases" page and then selecting "Download Additional Licenses" or by contacting me at julie@magicorelearning.com.



Good to Go

- Use this resource personally or with your own children.
- Use this resource in your own classroom with your students.
- Provide this resource to your students to use at your instruction.
- Print and/or copy for use in your own classroom.
- Provide printed pages to a substitute teacher with the sole purpose of instructing your students.
- Share with your students via a secure document portal or electronic learning platform that requires individual user verification and limits access to only the students in your own classroom (e.g. Google Classroom).
- Review this resource with others with the sole purpose of recommending it to others for purchase, provided you share one of the links below:

https://magicorelearning.com/

https://www.teacherspayteachers.com/Store/Magicore



Not O.K.

- Share with others to use personally.
- Share with others to use in another classroom.
- Print or copy any page(s) and distribute them to other teachers or other classrooms.
- Publish or host online in a manner where any of the material is accessible to anyone who is not a student in your own classroom., including but not limited to personal, classroom, or district websites that are accessible to the general public.
- Use this resource commercially (e.g. Outschool).
- Publish, sell, or otherwise distribute this product to anyone in manner inconsistent with these terms of use.

© Copyright 2020, 2022. All rights reserved. The unlicensed reproduction or distribution of this product is strictly prohibited. Permission is granted to the original purchaser or licensee to make copies to use with students and/or to assign to students digitally providing it is only available to students assigned directly to the purchaser. Using this product in any manner that makes it accessible to the general public is strictly forbidden. Commercial use, including but not limited to online or in person classes, is prohibited. Contact julie@magicorelearning.com for commercial licensing information. Sharing without permission or hosting online in a public manner is a violation of the Digital Millennium Copyright Act (DMCA). These terms may be updated at any time. You can see the most up to date Terms of Use at https://magicorelearning.com/terms-of-use.

Let's Connect!

www.magicorelearning.com

https://www.teacherspayteachers.com/Store/magicore

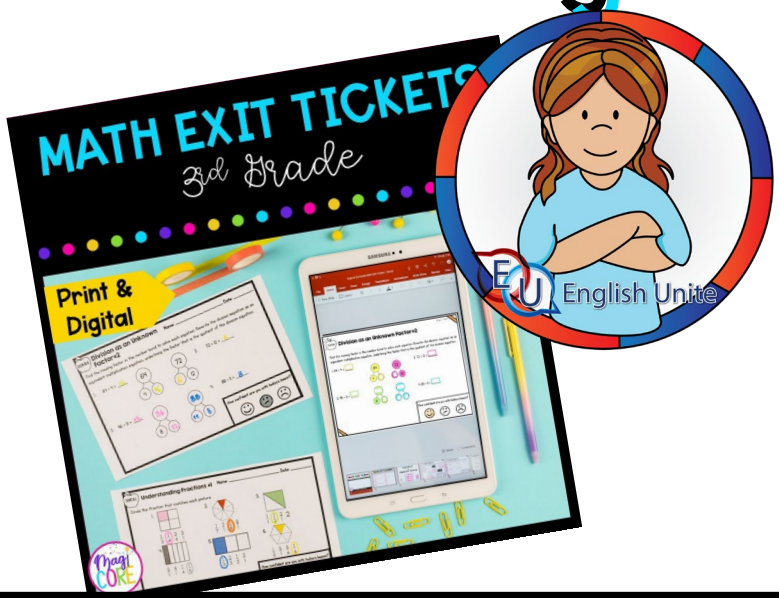
https://www.facebook.com/MagiCoreLearning/

https://www.instagram.com/magicorelearning/

https://www.pinterest.com/magicorelearning/_shop/

Julie@magicorelearning.com

Looking for more?





Membership Opportunity!

If you love these resources and want access to more, check out my membership opportunity with the MagiCore Club.

[Join my Core Kingdom Club waitlist!]

MagiCore Club opens its membership doors twice a year to offer teachers all of the resources you love, with a membership discount. You can also find support through my custom learning plan.

Find out more magicorelearning.com/membership.

CREDITS