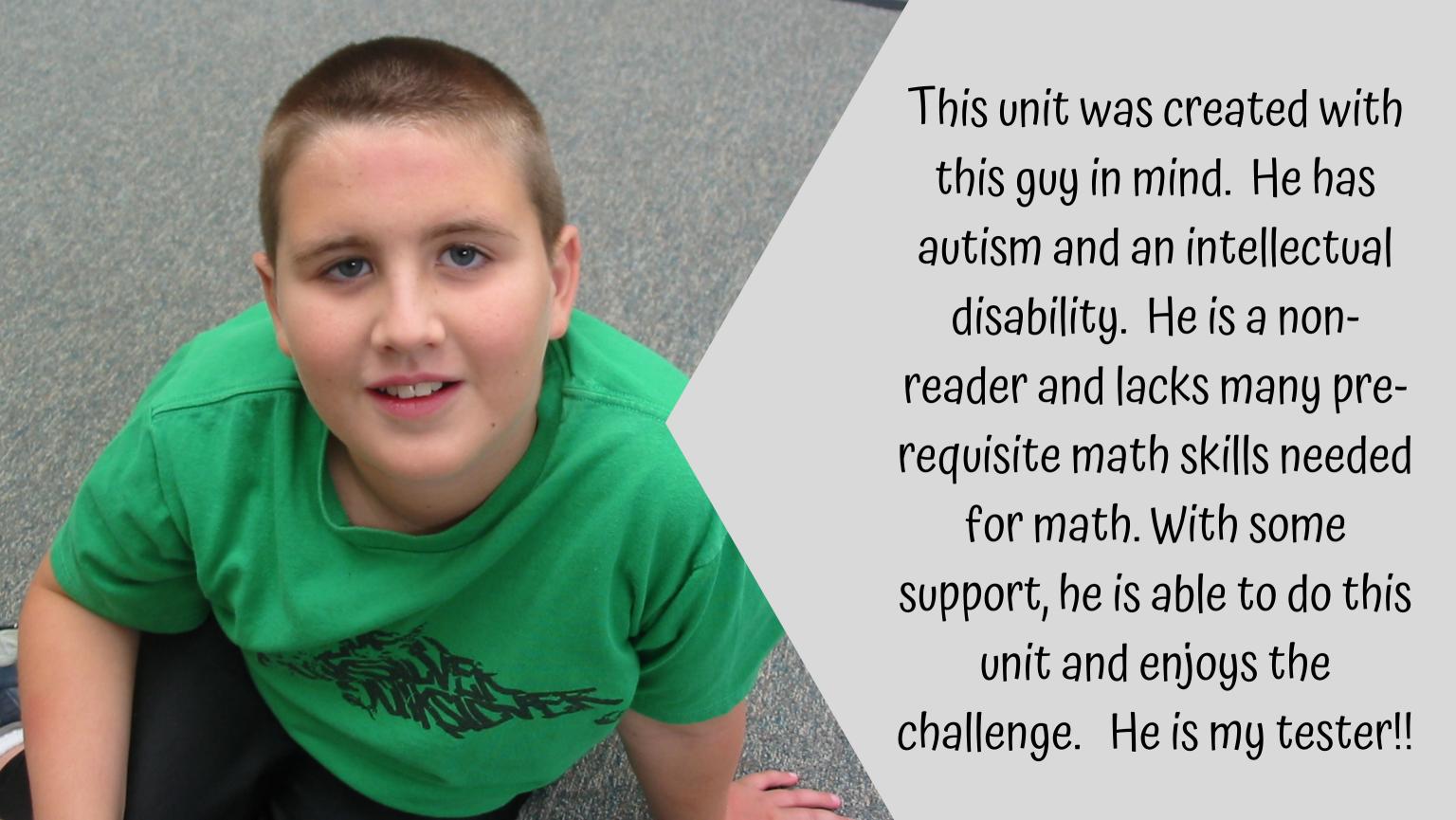


ALSO INCLUDES GOOGLE SLIDES



Color vers

Division Unit



By
Christa Joy
Special Needs for Special Kids

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34-40 Worksheet set 3: match equivalent expression:		
41-53 Solving division problems step-by-step		
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Also included in this resource as separate files:

- Lesson plans
- · Links and directions to digital activities
- PowerPoint (this is the book in the lesson plans)
- Voice recorded PowerPoint
- · Activities in black and white

This unit contains over 50 pages of material. But, don't worry!! I have included an 9 day lesson plan to help you make the most of everything in this unit.

This unit comes in 2 files, one in color and one in black and white.

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Division Lesson Plan

Preparation

- Book
 - o Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version as a PowerPoint show or mp4 file (see digital activities)
- · Group activities
 - Print out cards and laminate for activities

Teaching Tips

- Color Coding: this is a really easy way to add more structure to a matching activity. The color version of the activities have some color-coding added for students who need more support.
 - a. For more info, read more here: <u>https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/</u>
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/
- Make you own copies of the activities: Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.
- 3. Worksheets
 - a. There may be more worksheets included than you need.
 - For students who need more support, try using the worksheet with colorcoding one day and the one without color-coding the next day

The lesson plans contain:

Overall tips for teaching students with significant needs and who may lack some pre-requisite skills.

Quick Look

Day	Activity	Day	Activity
1	Book Group activity 1 Making equal sets	6	Book Group activity 3 Matching equivalent expressions
2	Book Group activity 1 Making equal sets	7	Book Group activity 3 Matching equivalent expressions
3	Book Group activity 2 Making arrays	8	Book Solving equations step by step
4	Book Group activity 2 Making arrays	9	Book Solving equations step by step
5	 Book Group activity 3 Matching equivalent expressions 		

The lesson plans contain:

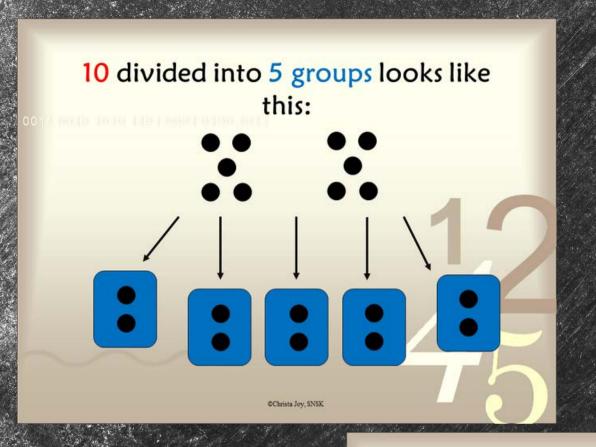
A quick look at what you will do each day.

Day 5-7

Activity	Notes	Materials
Read or listen to the movie version of the book	 Read through the story, asking lots of questions Continue to make connections between book and vocabulary board 	Book Vocabulary board
Group Activity 3 (15 minutes)	Matching equivalent expressions See activity for ideas on different ways to play this game	Activity cards
Review matching equivalent expressions worksheet (5 minutes)	Review the worksheet completed yesterday	Equivalent expressions worksheet
Match equivalent expressions (10 minutes)	 Do one of the worksheets drawing a line to the equivalent expression There is a differentiated version included with dashed lines to trace if needed See worksheet for suggestions on different ways to complete these worksheets If students use differentiated worksheets, see if they are able to complete the same worksheet without the differentiation Students are not solving the problems 	Worksheet Pencils
Sharing (10 minutes)	Each student shares one of their finished worksheets with the group using the communication method of their choice	 Completed worksheets Communication devices

The lesson plans contain:

Detailed instructions on how that day's lesson should run including group and individual activities.



This unit contains a book that is 20 pages and covers what it means to divide numbers.

Now we can finish the math sentence.

Count how many are in each group.



$$10 \div 5 = 2$$

It comes in a PowerPoint version as well as an mp4 version that is animated and narrated.

CChrista Jov. SNSK

Group Activity 1: Making equal groups and identifying remainders

- Supplies
 - · Ice cube trays
 - Egg cartons (I like these because you can cut them down to different sixes)
 - · Other divided storage containers
 - · Pieces of colored constructions paper
 - · Large colored index cards
 - · Small things to sort
 - · Novelty erasers
 - · Pompoms
 - Counters
 - · Candy (skittles, m&ms, etc)
 - Cereal
 - · Optional: remainder container
- Set up
 - · Print and laminate cards
 - · Decide what container or sorting mat to use
- Objective: To divided the number of objects (on card) into the number of groups (on card) place any remainders to the side
- To play
 - · Students draw a number card
 - · Students draw a group card
 - Students will count out the number of objects on the group card and divided them into the number of groups on group card
 - · Place remainders to the side or in a special container

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2	3	4	5
6	7	8	9
10	11	12	13
14	15	16	17
18	19	20	21

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Group Cards

Number Cards

2	3	
groups	groups	grou
5	6	7
groups	groups	groups
8	9	10
groups	groups	groups
11	12	
groups	groups	

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There are 3 group activities.

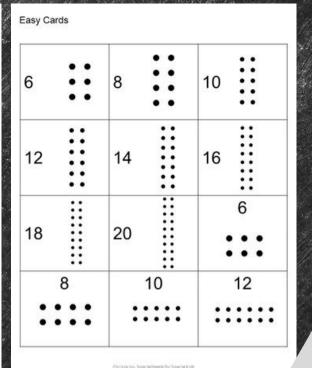
The first one has students practice creating equal sets of objects.

There are several different variations on how to do this group activity to keep students engaged.

Group Activity 2: Making arrays

- Supplies
 - · Small things to sort
 - · Novelty erasers
 - Pompoms
 - Counters
 - · Candy (skittles, m&ms, etc)
 - Cereal
 - · Optional: remainder container
- Set up
 - · Print and laminate cards
 - · Choose which set is best for your students or print both.
 - · I have 2 grids you can use if needed as a template.
- Objective: To place the number of objects into an array shown
- To play
 - · Students draw a card (There are 2 versions)
 - · Easy: total number given and picture of array to be made
 - Challenge: total number given and the array written in a x b format (where a equals number of rows and b equals number of columns)

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Challenge Cards

6	8	
3 x 2 array	4 x 2 array	5 x 2 a.
12	12	16
6 x 2 array	3 x 4 array	8 x 2 array
16	18	18
4 x 4 array	9 x 2 array	6 x 3 array
18	20	20
3 x 6 array	10 x 2 array	4 x 5 array

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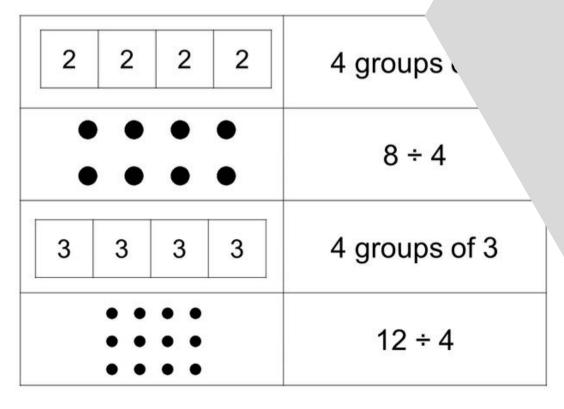
The second group activity has students practice making arrays.

Again, there are several different variations on how to do this group activity to keep students engaged.

Group Activity 3: Find Matching Sets

- · Do this as a group activity.
- Print cards and laminate.
- · Students will find all four cards that have the same meaning or value, for example:
 - 1. 2 2 2
 - 2. • •
 - 3 groups of 2
 - 4. 6 ÷ 3
- To differentiate, outline each set in a different color
- Options:
 - · Rather than find all 4 in the group, give students decrease the options to 3 in a group
 - · Give students pairs of cards to match

The third group activity has students finding equivalent expressions.



Again, there are several different variations on how to do this group activity to keep students engaged.

Division worksheet set 1: making equal sets

- · Students will practice making equal sets
- · Options for use:
 - Use dot markers
 - · Draw dots, lines, or other shape
 - · Use stickers
 - · Use q-tips or pencil erasers dipped in paint
 - · Laminate and use dry erase markers
 - Laminate and cut apart and use as task cards or in centers
 - · Use manipulatives that you used in the group activity
- To differentiate

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- Draw lightly colored circles/dots with something like a highlighter, that students can mark over
- · Cut problems apart so it is less visually overwhelming
- · Eliminate the larger numbers and those with remainders

Draw equal groups of each amount shown.

6	
8	
10	
12	
14	

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4 worksheets

Draw equal groups of each amount shown. Put any remainders in the circle. 14 19 The Picture Communication Symbols @1981-2019 by Tobii Dynayay, All Rights Reserved

There are 4 worksheet sets. The first one has students drawing equal sets into designated groups.

Division worksheet set 2: drawing arrays

- · Students will practice making arrays
- · There are 2 options:
 - Easy: there is a graphic provided where students place one dot in each box
 - Challenging: no graphic is provided. Students can choose how to draw the array.
- · Options for use:
 - · Use dot markers
- · Draw dots, lines, or other shape
- Use stickers
- · Use q-tips or pencil erasers dipped in paint
- · Laminate and use dry erase markers
- Laminate and cut apart and use as task cards or in centers
- · Use manipulatives that you used in the group activity

Circle the groups in the array to match the equation. Sometimes you will circle rows, and sometimes you will circle columns. READ CAREFULLY!!

sample

10 divided into 5 groups of 2



8 divided into 2 groups of 4



6 divided into 3 groups of 2



16 divided into 4 groups of 4



14 divided into 2 groups of 7



4 worksheets

Draw an array for each number. Place a dot in each box.

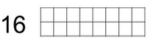
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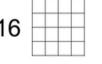


12



12





Christa Joy, Special Needs for Special Kids Hicture Communication Symbols ©1981–2019 by Tobii Dynawox, All Rights Reserved Forldwide, Usedwith permission, Boardmaker® is a trademark of Tobii Dynawox Draw the array for each number based on the directions.

6

2 X 3 array

8

4 X 2 array

9

3 X 3 array

12

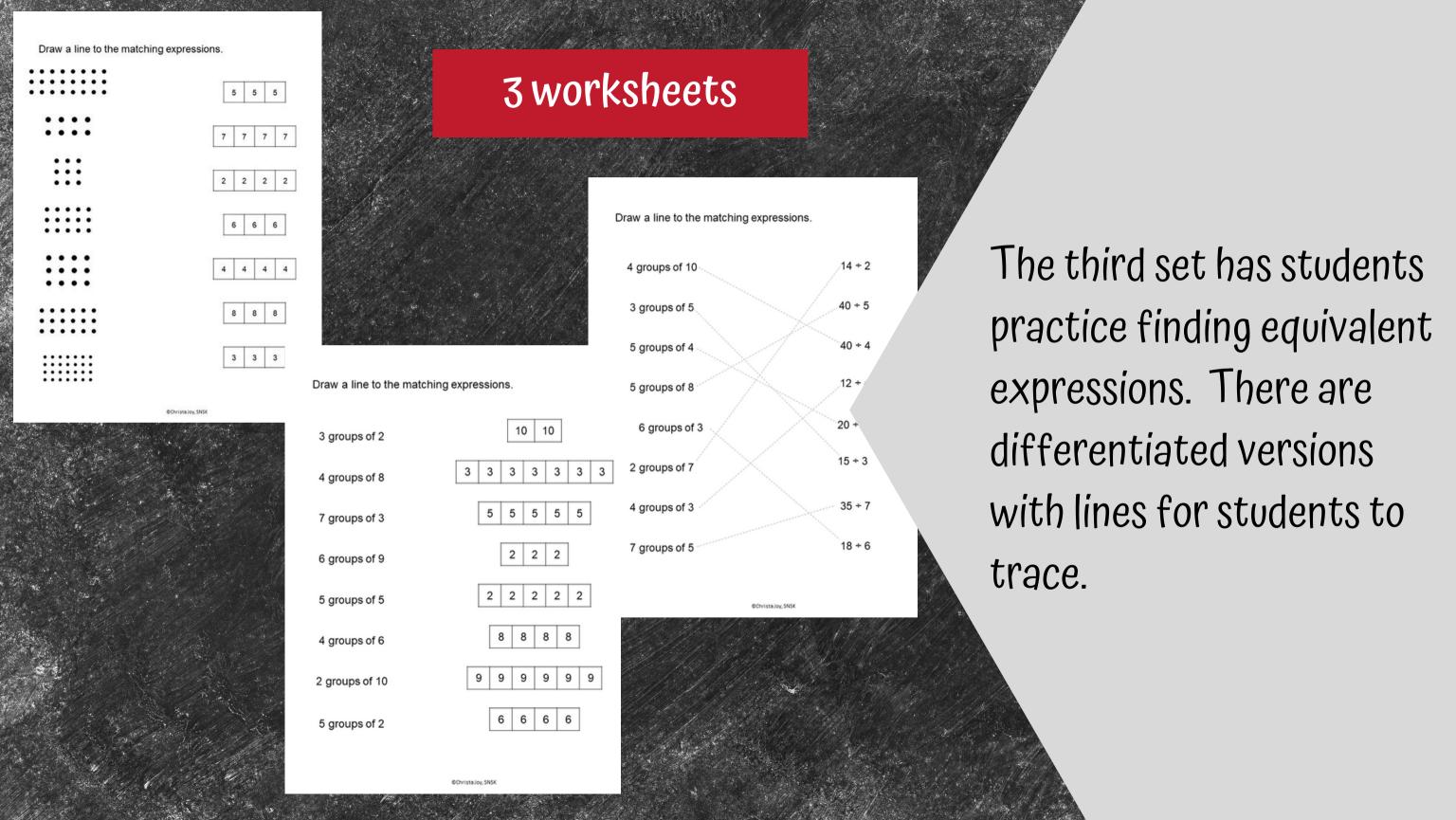
2 X 6 array

12

4 X 3 array

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The second set has students practice drawing arrays with different levels of visual support.



Division worksheets

- Students will practice each step to solve the division problem using the method shown in the book.
- · The first one is done as an example
 - In the color version, you will see how you can add colorcoding for students who need more support.
- They designed to focus on one small skill at a time and then build from there.
 - . Students identify the total number you would start with.
 - Students draw how many groups they are dividing the total into.
 - · Students draw equal sets
 - · Students solve the problem
- I have included a blank template in the end if your students need more practice.

Sample

How many counters do you need?

$$4 \div 2 = 2$$

4

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Draw the number of groups are you need?

$$4 \div 2 = 2$$



Draw lines in each group?

$$4 \div 2 = 2$$







Solve the equation

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10 worksheets

How many counters do you need?

$$15 \div 3 = 5$$



Draw the number of groups are you need?

$$15 \div 3 = 5$$

Draw lines in each group?

$$15 \div 3 = 5$$

Solve the equation

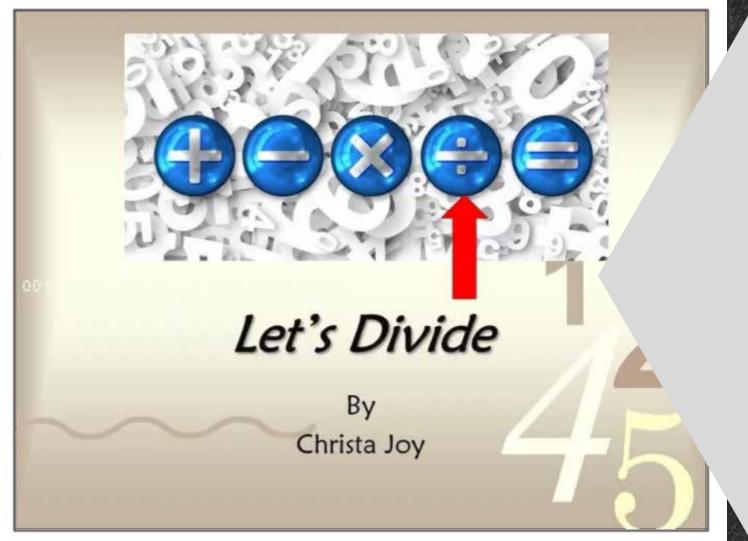
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The fourth set has students go through each step to solve simple division problems.

There is a blank template included so you can make more problems if students need more practice

Please note, that this unit does not include a formal assessment or fill-in-the-blank worksheets often found in my other units.

Watch the video on Division.

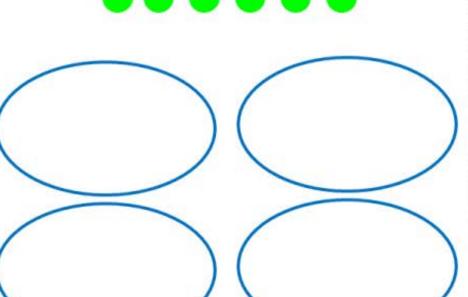


This unit includes digital activities. Part of that is a movie version of the book you can play in a google slide. This movie is animated and narrated.

Move the dots into the groups (ovals) equally until they are gone. Then, answer the questions.

 $12 \div 4 = 3$





How many TOTAL do you have?

How many groups do you have?

How many are in each group?

4

12

3

There are 2 sets of google slides that include practice problems. There are 17 slides in this set.



How many TOTAL do you have?

How many groups do you have?

How many are in each group?

Place the numbers in the correct boxes about the math sentence.

3

9

3

One set is differentiated with color for students who need more support.

There are 12 slides in this set.

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- 9 days of lesson plans
- Division activities in color
- Division activities in black and white
- Voice-recorded PowerPoint show
- Division book (PowerPoint) to use with activities
- Links and directions to digital activities