

An Introduction to DIVISION

3rd Grade



Printable & Google Slides



UNDERSTANDING DIVISION

3rd grade

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



DIVISOR

$$15 \div 5 = 3$$

ARRAY



EQUAL GROUPS

Write the division equation that matches each picture.

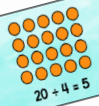
$$12 \div 4 = 3$$

$$12 \div 3 = 4$$

HOW TO REPRESENT DIVISION

Directions: Sort the following examples into the proper category.

ARRAY



$$20 \div 4 = 5$$

EQUAL GROUPS



$$50 \div 5 = 10$$

REPEATED SUBTRACTION

FACT FAMILIES

$$\begin{aligned} 3 \times 6 &= 18 \\ 6 \times 3 &= 18 \\ 18 \div 6 &= 3 \\ 18 \div 3 &= 6 \end{aligned}$$

STRIP DIAGRAM

QUOTIENT

$$15 \div 5 = 3$$

DIVIDEND

$$15 \div 5 = 3$$

QUOTIENT

$15 \div 5 = 3$

DIVISOR

$15 \div 5 = 3$

FACT FAMILIES

Directions: Write the missing numbers to complete the fact families.

House 1 (Pink Roof)

Roof: 9 (left), 6 (right), 54 (bottom)

Body:

- $9 \times 6 = \square$
- $6 \times \square = 54$
- $54 \div 6 = \square$
- $54 \div \square = 6$

House 2 (Blue Roof)

Roof: 12 (left), 4 (right), 48 (bottom)

Body:

- $12 \times 4 = \square$
- $4 \times 12 = \square$
- $48 \div 4 = \square$
- $48 \div \square = 4$

Name: _____

FACT FAMILIES

Directions: Fill in the missing numbers.

House 3 (Yellow Roof)

Roof: 5 (left), 3 (right), 15 (bottom)

Body:

- $3 \times 5 = \square$
- $5 \times \square = \square$
- $15 \div 3 = \square$
- $15 \div \square = \square$

House 4 (Green Roof)

Roof: 7 (left), 4 (right), 28 (bottom)

Body:

- $7 \times 4 = \square$
- $4 \times 7 = \square$
- $28 \div 4 = \square$
- $28 \div \square = 7$

Directions: Write the missing numbers.

1. $\square \div \square = \square$

3. $\square \div \square = \square$

5. $\square \div \square = \square$

Name: _____ Date: _____

STR

Directions: Fill in the missing numbers to make up a whole.

1. $\square + \square = \square$

3. $\square + \square = \square$

5. $\square + \square = \square$

Name: _____ Date: _____

NUMBER LINE HOPS

Directions: Use the number line to represent each division equation.

1. $35 \div 7 = ?$

2. $30 \div 5 = ?$

3. $24 \div 6 = ?$

4. $18 \div 2 = ?$

I can jump backwards by seven 5 times, so $35 \div 7 = 5$

DIVIDEND

$15 \div 5 = 3$

FACT FAMILIES

missing numbers in the fact families below

Date: _____

ED SUBTRACTION

by using repeated subtraction

Date: _____

can be subtracted from the number

DIVISOR

↓

$15 \div 5 = 3$



ARRAY

EQUAL GROUPS

Directions: Fill in the missing numbers to complete the division equation based on the picture.

Name: _____

Directions: Write the division

AR

QUOTIENT

↘

$15 \div 5 = 3$

Name: _____ Date: _____

EQUAL GROUPS

Directions: Write the division equation that matches each picture.

total * in each group * of groups

$12 \div 4 = 3$ OR $12 \div 3 = 4$

total * of groups * in each group

1 $___ \div ___ = ___$

2 $___ \div ___ = ___$

3 $___ \div ___ = ___$

4 $___ \div ___ = ___$

Name: _____ Date: _____

FACT FAMILIES

Directions: Fill in the missing numbers in the fact families below.

3

5

15

$3 \times 5 = \square$

10

2

20

$2 \times 10 = \square$

$10 \times \square = 20$

6

3

18

$6 \times 3 = \square$

$3 \times \square = 18$

Name: _____ Date: _____

REPEATED SUBTRACTION

Directions: Solve the division equations below by using repeated subtraction.

$14 - 7 = 7 \rightarrow 7 - 7 = 0$

Name: _____ Date: _____

EQUAL GROUPS

Write the division equation that matches each picture.

$12 \div 4 = 3$

3

Name: _____ Date: _____

ARRAYS

Directions: Write the division equation that matches each array.

Name: _____ Date: _____

ARRAYS

Directions: Fill in the missing numbers to complete the division equation based on the array.

$\div$

$=$

Name: _____ Date: _____

NUMBER LINE HOPS

Directions: Use the number line to represent each division equation.

$35 \div 7 = ?$

2 $18 \div 2 =$

4 $6 \div 1 =$

I can jump backwards by seven 5 times, so $35 \div 7 = 5$



DIVISOR

$15 \div 5 = 3$



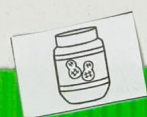
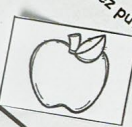
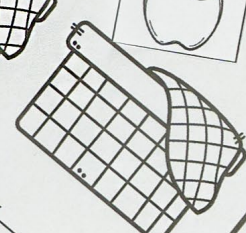
Name: _____ Date: _____

GOING ON A PICNIC

Directions: Solve the following word problem using the pictures to help you.

Mr. Gomez wants to go on a picnic. He has 24 food items and wants to put them in 3 baskets. How many items can Mr. Gomez put in each basket?

Answer: _____ items



BIRTHDAY CAKE

Directions: Solve the following word problem using the pictures to help you.

Jerome is making a birthday cake for his father. He has 35 candles, and he wants to line them up in five equal rows. How many candles will be in each row?



Number of rows: Number of columns:

Division equation: $\div$ = Answer: candles



Name: _____ Date: _____

FACT FAMILIES

Directions: Fill in the missing numbers in the fact families below.



Name: _____ Date: _____

NUMBER

Directions: Use the number line to solve the problem.

$35 \div 7$

Name: _____

STRIP DI

Directions: Fill in the missing numbers on the strip.



Name: _____ Date: _____

EC

Directions: Write the division equation.

1 $\div$ _____ = _____

3 $\div$ _____ = _____

5 $\div$ _____ = _____

Name: _____ Date: _____

GO

Directions: Solve Mrs. Gomez is an equal number.

1 $\div$ _____ = _____

3 $\div$ _____ = _____

5 $\div$ _____ = _____

Name: _____ Date: _____

STRIP DIAGRAM

Directions: Fill in the blank.

1 $35 \div 7 = ?$

2 $18 \div 2 =$ _____

3 $24 \div 6 =$ _____

5 $21 \div 3 =$ _____

7 $54 \div 9 =$ _____

QUOTIENT

$15 \div 5 = 3$

ARRA

Name: _____ Date: _____

REPEATED SUBTRACTION

Directions: Solve the

$14 \div 7 =$

1 $24 \div 6 =$

3 $30 \div 3 =$

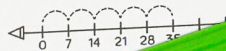
5 $42 \div 6 =$

Name: _____ Date: _____

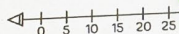
NUMBER LINE HOPS

Directions: Use the number line to represent each division equation.

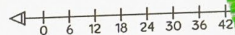
$35 \div 7 = ?$



1 $30 \div 5 =$



3 $24 \div 6 =$



5 $21 \div 3 =$



7 $54 \div 9 =$



Name: _____ Date: _____

FACT FAMILIES

Directions: Fill in the missing numbers in the fact families below.

House 1: 5 (roof), 3 (chimney), 15 (gable).
 $3 \times 5 =$
 $5 \times 3 = 15$
 $15 \div 3 =$
 $15 \div 5 =$

House 2: 2 (roof), 10 (chimney), 20 (gable).
 $2 \times 10 =$
 $10 \times 2 = 20$
 $20 \div 10 =$
 $20 \div 2 =$

House 3: 3 (roof), 6 (chimney), 18 (gable).
 $6 \times 3 =$
 $3 \times 6 = 18$
 $18 \div 6 =$
 $18 \div 3 =$

House 4: 7 (roof), 4 (chimney), 28 (gable).
 $7 \times 4 = 28$
 $4 \times 7 = 28$
 $28 \div 7 =$
 $28 \div 4 =$

House 5: 9 (roof), 6 (chimney), 54 (gable).
 $9 \times 6 =$
 $6 \times 9 = 54$
 $54 \div 9 =$
 $54 \div 6 =$

House 6: 12 (roof), 4 (chimney), 48 (gable).
 $12 \times 4 =$
 $4 \times 12 =$
 $48 \div 12 = 4$
 $48 \div 4 =$

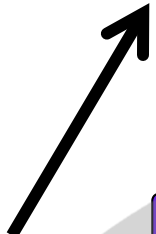
House 7: 4 (roof), 1 (chimney), 4 (gable).
 $4 \times 1 =$
 $1 \times 4 = 4$
 $4 \div 1 =$
 $4 \div 4 =$

House 8: 11 (roof), 5 (chimney), 55 (gable).
 $11 \times 5 =$
 $5 \times 11 = 55$
 $55 \div 11 = 5$
 $55 \div 5 = 11$

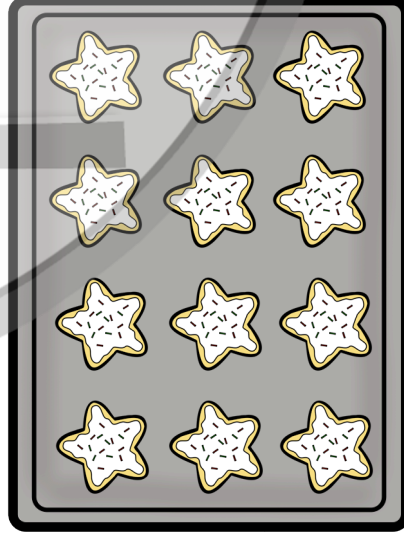
DIVISOR

$$15 \div 5 = 3$$


QUOTIENT

$$15 \div 5 = 3$$


ARRAY



DIVIDEND

$$15 \div 5 = 3$$


Name: _____ Date: _____

FACT FAMILIES

Directions: Fill in the missing numbers in the fact families below.

5

3 15

$3 \times 5 = \square$

$5 \times \square = 15$

$15 \div 3 = \square$

$15 \div 5 = \square$

2

10 20

$2 \times 10 = \square$

$10 \times \square = 20$

$20 \div 10 = \square$

$20 \div 2 = \square$

3

6 18

$6 \times 3 = \square$

$3 \times \square = 18$

$18 \div 6 = \square$

$18 \div 3 = \square$

7

4 28

$7 \times \square = 28$

$4 \times \square = 28$

$28 \div 7 = \square$

$28 \div 4 = \square$

9

6 54

$9 \times 6 = \square$

$6 \times \square = 54$

$54 \div 6 = \square$

$54 \div \square = 6$

12

4 48

$12 \times 4 = \square$

$4 \times 12 = \square$

$48 \div 4 = \square$

$48 \div \square = 4$

4

1 4

$4 \times 1 = \square$

$1 \times \square = 4$

$4 \div 1 = \square$

$4 \div 4 = \square$

11

5 55

$11 \times 5 = \square$

$5 \times \square = 55$

$55 \div \square = 5$

$55 \div \square = 11$

8

2 16

$2 \times 8 = \square$

$8 \times \square = 16$

$16 \div \square = 2$

$16 \div 2 = \square$

Name: _____ Date: _____

REPEATED SUBTRACTION

Directions: Solve the division equations below by using repeated subtraction.

$14 \div 7 = \underline{2}$

$14 - 7 = 7 \longrightarrow 7 - 7 = 0$

7 can be subtracted from 14 two times

1 $24 \div 6 = \underline{\hspace{2cm}}$

2 $9 \div 3 = \underline{\hspace{2cm}}$

3 $30 \div 3 = \underline{\hspace{2cm}}$

4 $48 \div 8 = \underline{\hspace{2cm}}$

5 $42 \div 6 = \underline{\hspace{2cm}}$

6 $35 \div 5 = \underline{\hspace{2cm}}$

Name: _____ Date: _____

EQUAL GROUPS

Directions: Write the division equation that matches each picture.



$$12 \div 4 = 3$$

total # in each group # of groups

OR

$$12 \div 3 = 4$$

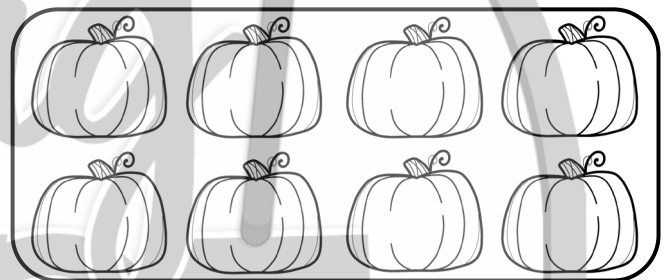
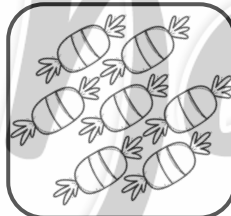
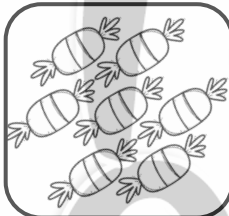
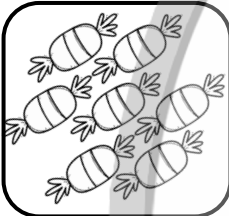
total # of groups # in each group

1

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

2

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

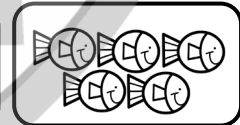
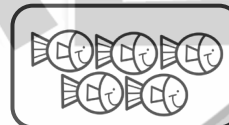
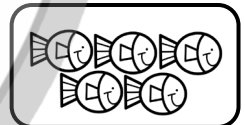
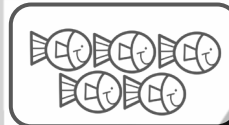
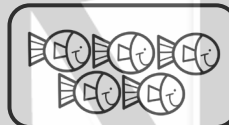
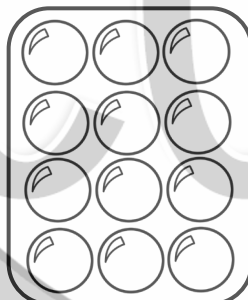
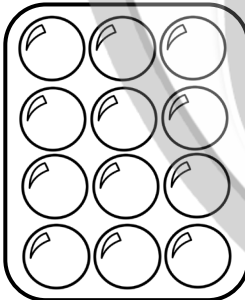


3

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

4

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

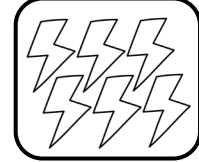
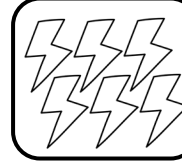
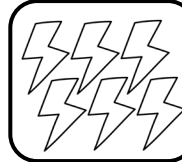
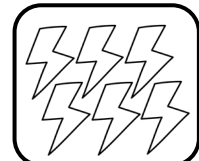
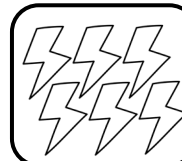
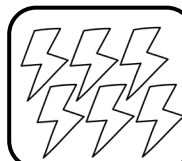
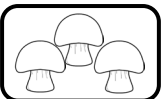
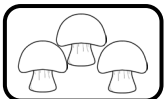
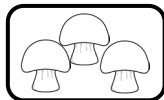
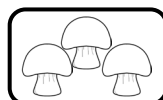
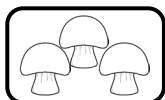
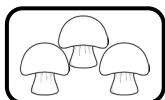
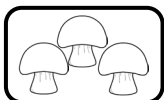
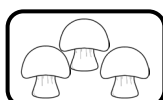
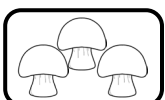
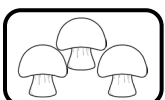


5

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

6

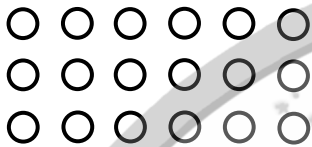
$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



Name: _____ Date: _____

ARRAYS

Directions: Write the division equation that matches each array.



$$18 \div 3 = 6$$

total # of rows # of columns

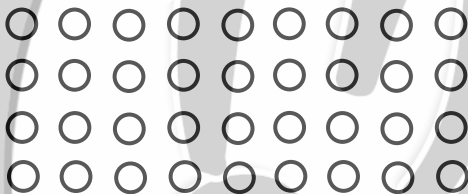
OR

$$18 \div 6 = 3$$

total # of columns # of rows

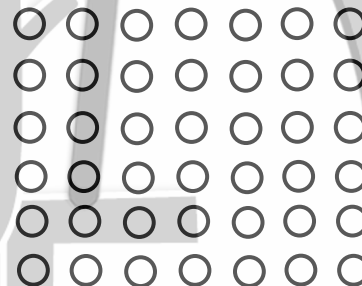
1

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



2

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



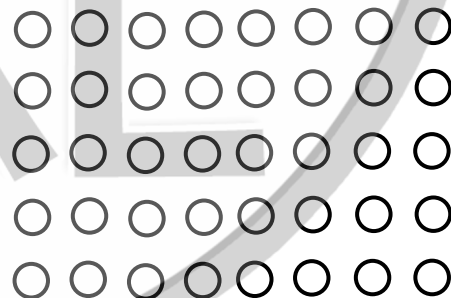
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$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



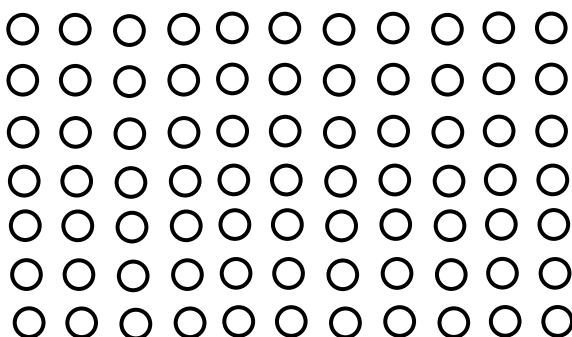
4

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



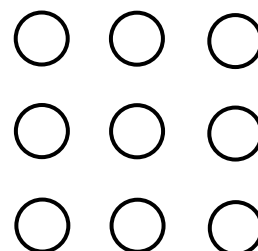
5

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



6

$$\underline{\hspace{1cm}} \div \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

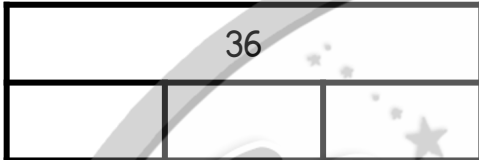


Name: _____ Date: _____

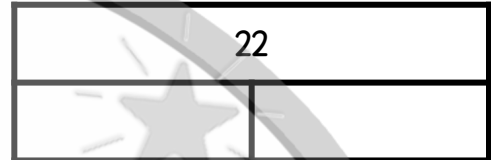
STRIP DIAGRAMS

Directions: Fill in the missing numbers on the strip diagrams to represent equal parts that make up a whole.

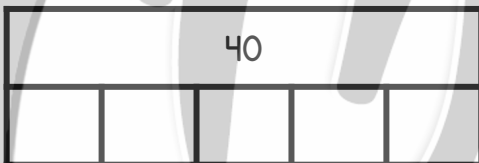
1



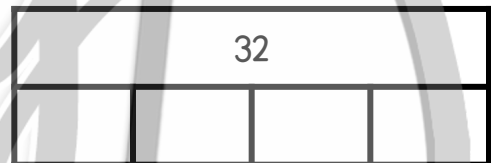
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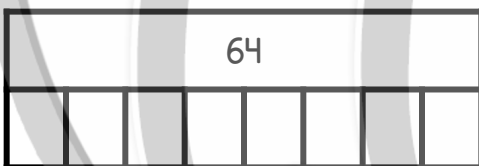
3



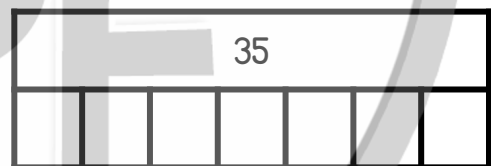
4



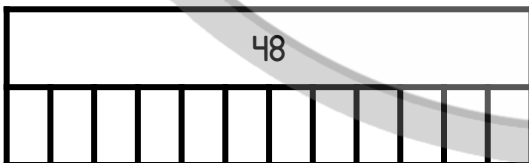
5



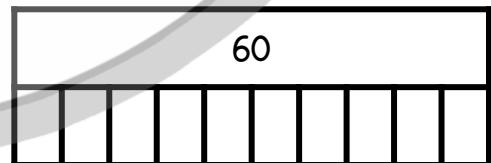
6



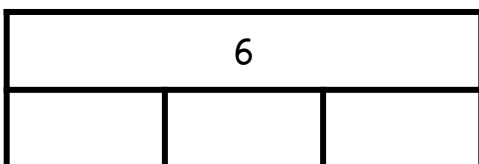
7



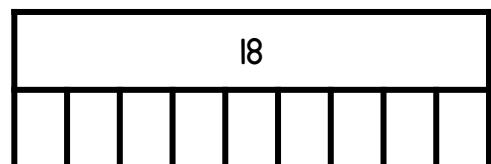
8



9



10



Name: _____ Date: _____

NUMBER LINE HOPS

Directions: Use the number line to represent each division equation.

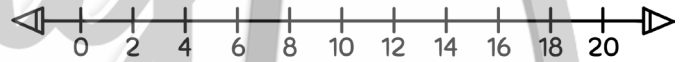
$35 \div 7 = ?$



I can jump backwards
by seven 5 times, so
 $35 \div 7 = 5$

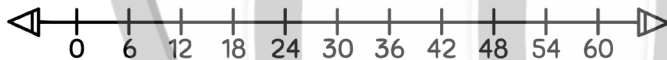
1 $30 \div 5 =$ _____

2 $18 \div 2 =$ _____



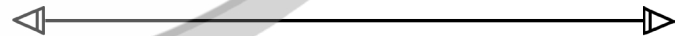
3 $24 \div 6 =$ _____

4 $6 \div 1 =$ _____



5 $21 \div 3 =$ _____

6 $72 \div 8 =$ _____



7 $54 \div 9 =$ _____

8 $66 \div 11 =$ _____

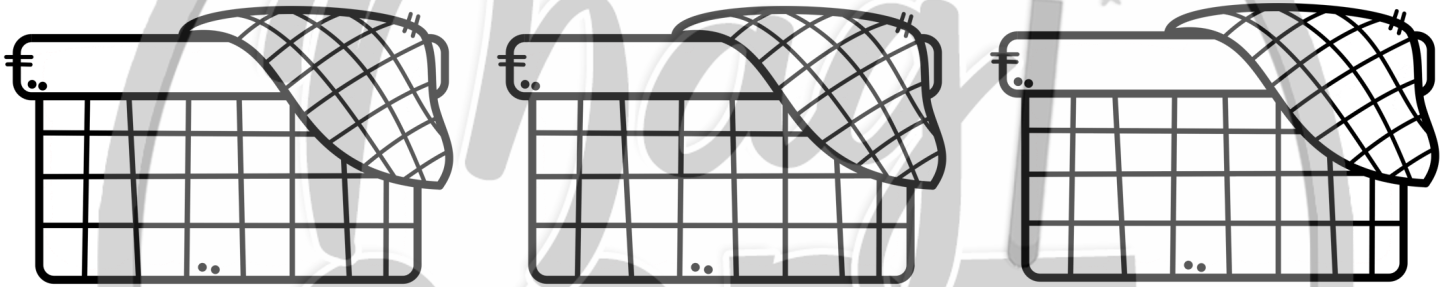


Name: _____ Date: _____

GOING ON A PICNIC

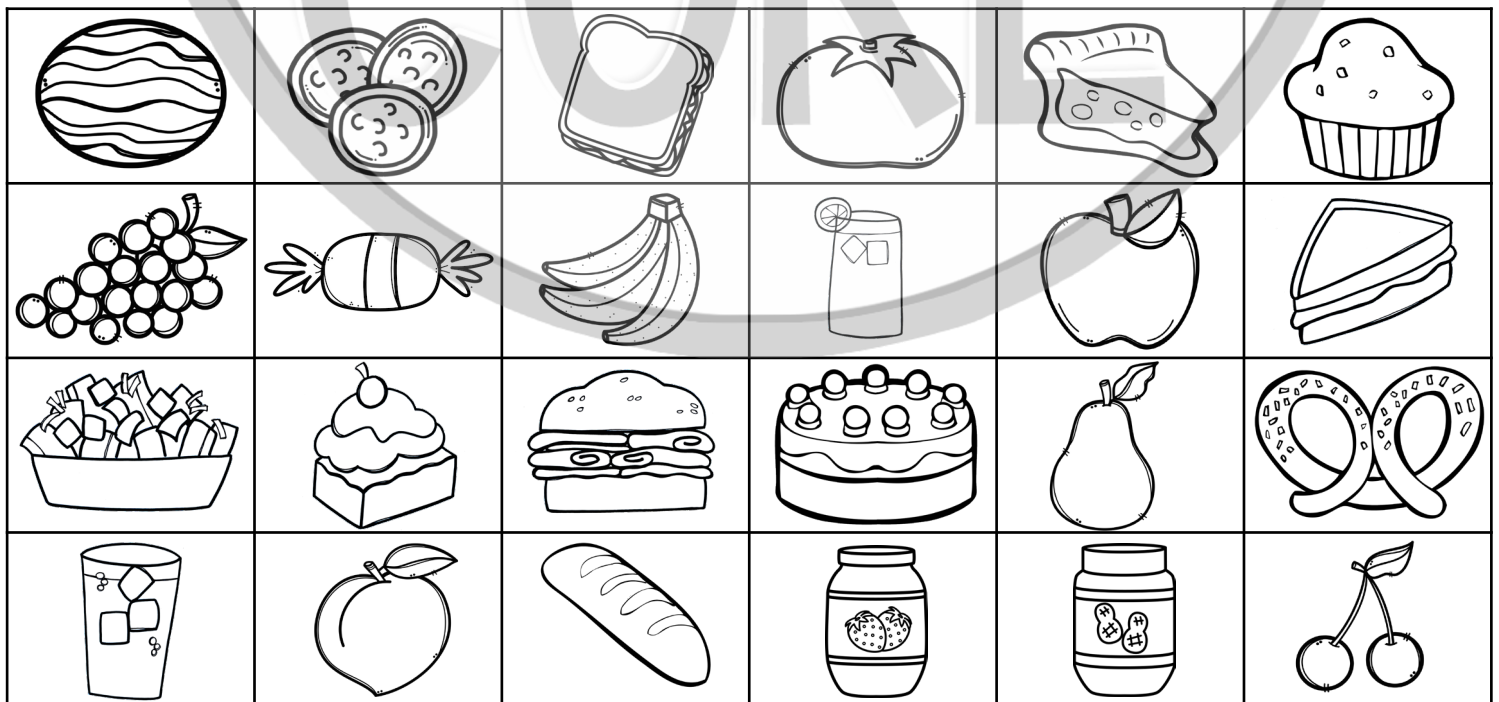
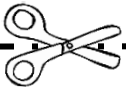
Directions: Solve the following word problem using the pictures to help you.

Mrs. Gomez is preparing baskets to go on a picnic. She has 24 food items and wants to put an equal number in each of 3 baskets. How many items can Mrs. Gomez put in each basket?



Division equation: _____ ÷ _____ = _____

Answer: _____ items



Name: _____ Date: _____

UNDERSTANDING DIVISION

1. Label the dividend, divisor, and quotient in the equation below.

$$96 \div 8 = 12$$

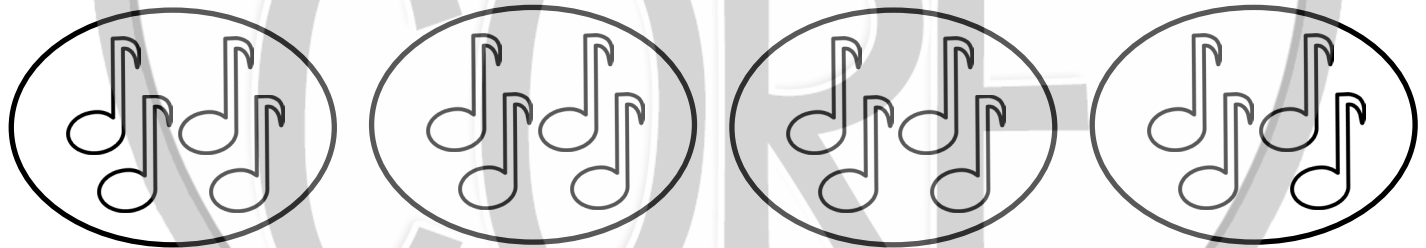
2. Write three other members in the same fact family as $30 \div 6 = 5$

_____ x _____ = _____

_____ x _____ = _____

_____ $\div$ _____ = _____

3. The picture below shows four groups of music notes. Does the picture show $16 \div 4 = 4$? Explain why or why not.



4. Draw a picture to represent the division equation shown in the strip diagram below.

32							
4	4	4	4	4	4	4	4

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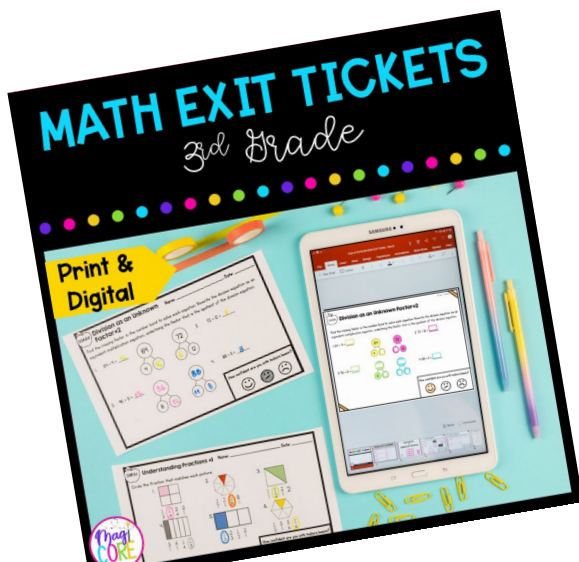


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