



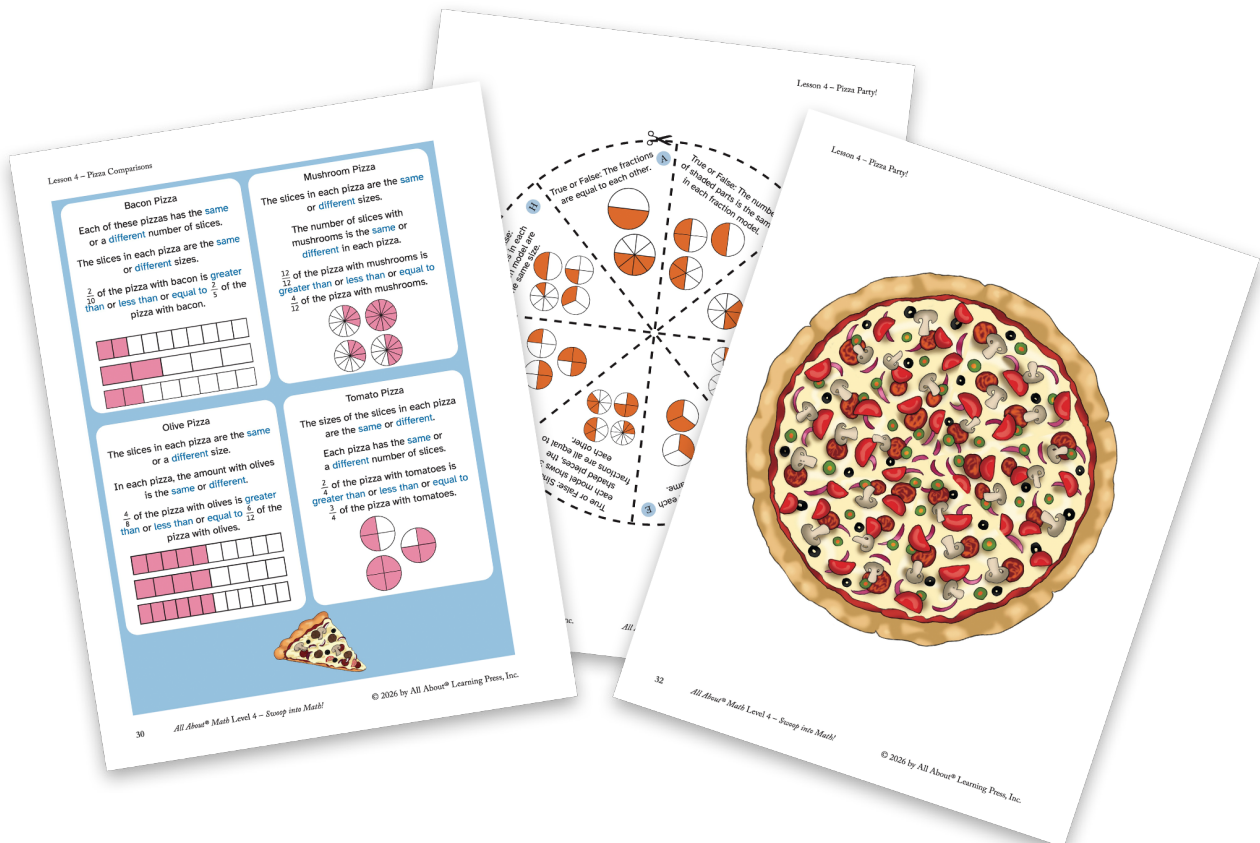
ALL ABOUT[®] Math

The program that takes the struggle out of math

Level 4 Activity Book Sample

In this sample you will find:

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ALL ABOUT[®] Math

Level 4 - Progress Chart



Name _____

You did it!



Level 4 Daily Review Tracker

| Date Started | Skill | Lessons and Notes | Date Mastered |
|--------------|---|---|---------------|
| | Represent equivalent fractions. | 3: with models 7: with fractions | |
| | Compare up to four fractions. | 4: compare with images 10: use comparison symbols | |
| | Order up to four fractions. | 5: same denominator 6: same numerator 8: with benchmarks 11: mixed numerators/denominators | |
| | Solve story problems involving elapsed time. | 5 | |
| | Identify and convert units of measurement. | 6: <input type="checkbox"/> teaspoon 9: <input type="checkbox"/> liter <input type="checkbox"/> tablespoon <input type="checkbox"/> milliliter <input type="checkbox"/> cup 13: <input type="checkbox"/> kilo <input type="checkbox"/> pint <input type="checkbox"/> centi <input type="checkbox"/> quart <input type="checkbox"/> milli <input type="checkbox"/> gallon <input type="checkbox"/> gram 7: <input type="checkbox"/> fluid ounce <input type="checkbox"/> kilogram <input type="checkbox"/> ounce <input type="checkbox"/> milligram <input type="checkbox"/> pound 15: <input type="checkbox"/> millimeter 8: <input type="checkbox"/> inch <input type="checkbox"/> centimeter <input type="checkbox"/> feet <input type="checkbox"/> meter <input type="checkbox"/> yard <input type="checkbox"/> kilometer <input type="checkbox"/> mile | |
| | Explain and create equivalent fractions. | 9 | |
| | Read and write decimals expressed through hundredths. | 13: connect base-10 to tenths and hundredths 14: fractions as decimals 15: write decimals | |
| | Understand decimals expressed through hundredths. | 16: represent and identify 17: ten-to-one place value relationship 18: identify place value | |

| Date Started | Skill | Lessons and Notes | Date Mastered |
|--------------|---|--|---------------|
| | Classify shapes by their angles and lines. | 19: lines 22: angles | |
| | Round decimals expressed through hundredths. | 20 | |
| | Locate and compare decimals expressed through hundredths on a number line. | 19: locate decimals 21: compare decimals | |
| | Identify types of angles and triangles. | 21: <input type="checkbox"/> acute angle <input type="checkbox"/> acute triangle <input type="checkbox"/> obtuse angle <input type="checkbox"/> obtuse triangle <input type="checkbox"/> right angle <input type="checkbox"/> right triangle | |
| | Order up to four decimals, expressed through hundredths. | 22 | |
| | Multiply a multi-digit whole number. | 24: by one-digit 25: by two-digits | |
| | Find whole-number quotients with multi-digit dividends. | 26: without remainders 27: with remainders 28: interpret remainders | |
| | Multiply a whole number by a fraction. | 29: multiply fractions 30: understand products | |
| | Add and subtract fractions with the same denominator. | 31: add 32: subtract 33: sum of tenths and hundredths | |
| | Recognize lines, line segments, and rays. | 35 | |
| | Understand angles and measurements. | 36 | |
| | Identify apparent features of a pattern. | 37 | |
| | Create a number sequence that follows a repeating rule. | 38 | |
| | Multiply or divide to solve story problems involving multiplicative comparison. | 39: understand multiplicative comparisons 40: solve multiplicative comparisons | |
| | Solve multistep story problems. | 41 | |

Two-Step Story Problems

Liam and his family walked 438 yards to their camping site and 276 more to gather firewood while on their camping trip. The next morning, they walked 189 yards for their rafting trip down the Nantahala River. How many total yards did they walk?

A group of volunteers collected 752 pieces of trash along the Appalachian Trail. They disposed of 318 pieces in the morning and 224 pieces in the afternoon. How many pieces of trash were left to throw away?

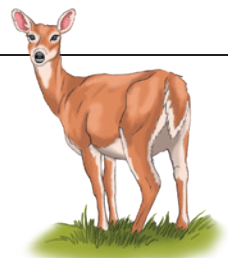
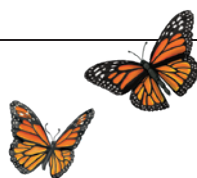
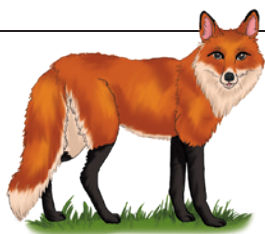
A hiking gear store had 245 water bottles on one shelf and 367 on another shelf. After a busy weekend of sales, the store sold 198 water bottles to hikers gearing up for their adventures. How many water bottles are left in the store now?

| Inch | Feet | Yard |
|------|------|------|
| 36 | | |
| | 6 | |
| | | 3 |

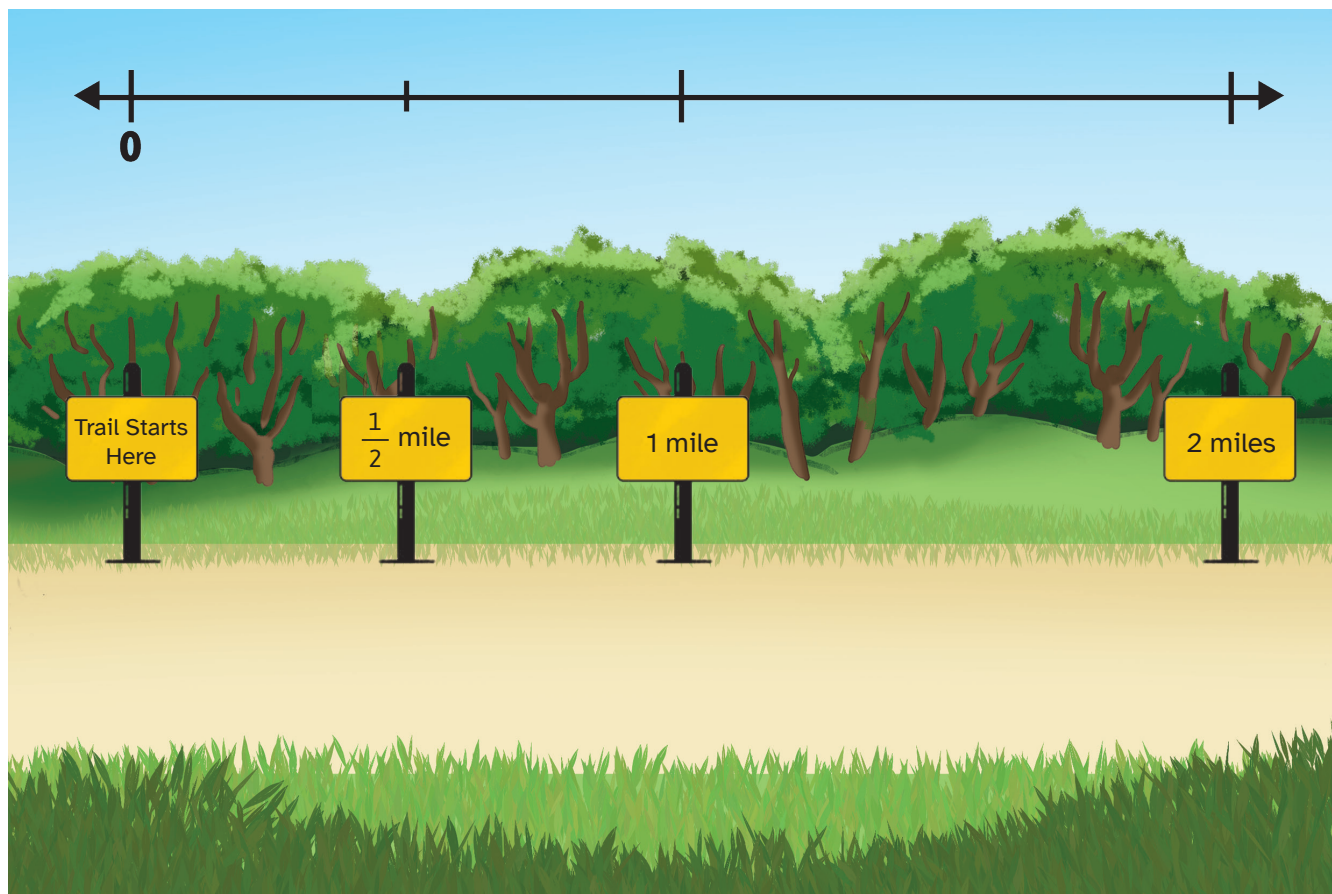
1. Rebecca has a ribbon that is 48 inches long. She wants to know how many feet it is. How many feet of ribbon does Rebecca have?

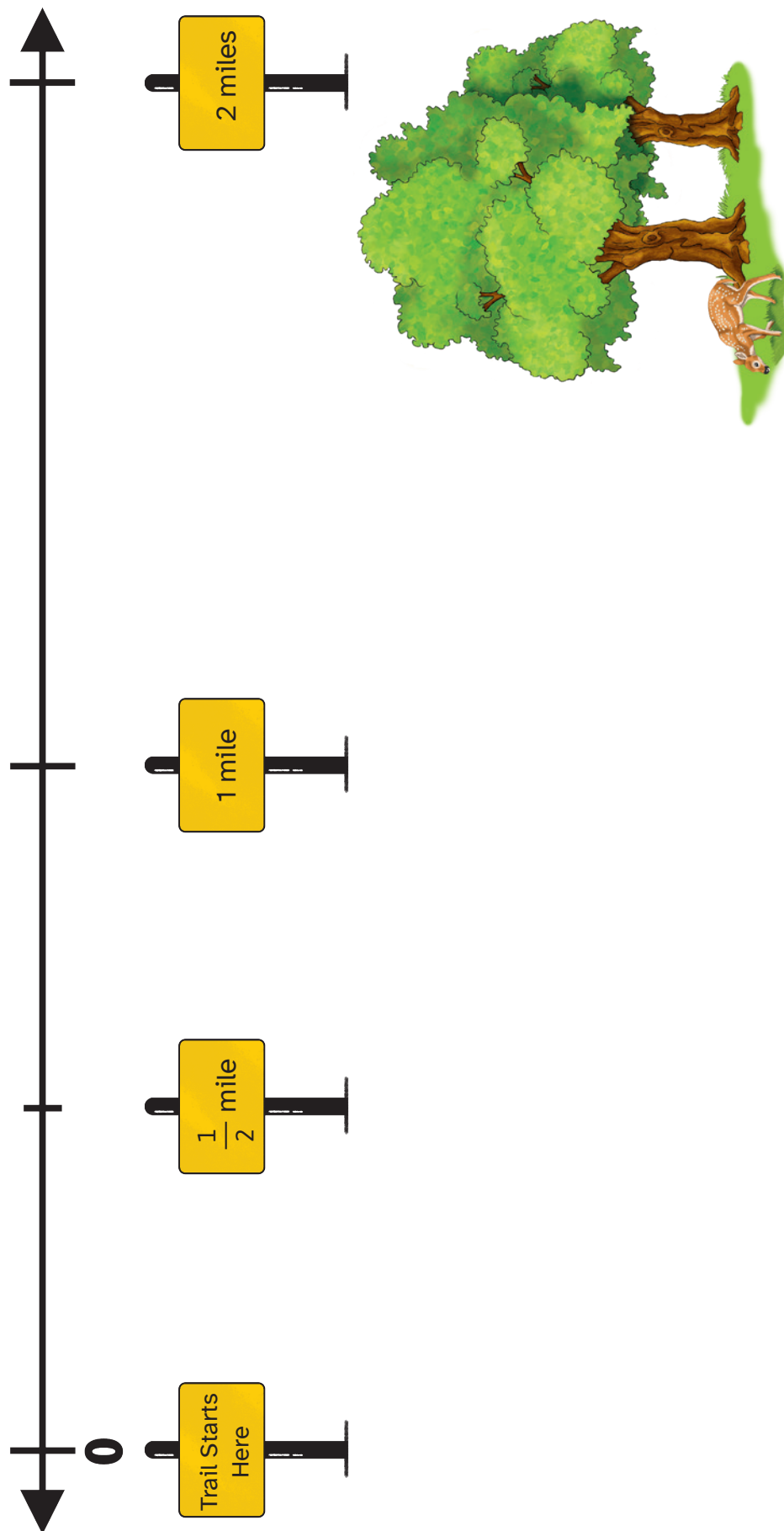
2. A hiking trail is 10,560 feet long. How many miles is the hiking trail?

| Fraction | Less than $\frac{1}{2}$ | Between $\frac{1}{2}$ and 1 | Greater than 1 | Distance from 1 |
|-----------------|-------------------------|-----------------------------|----------------|-----------------|
| $\frac{2}{10}$ | ✓ | | | $\frac{8}{10}$ |
| $\frac{8}{12}$ | | | | |
| $\frac{6}{4}$ | | | | |
| $\frac{2}{8}$ | | | | |
| $\frac{9}{10}$ | | | | |
| $\frac{13}{12}$ | | | | |



| less than $\frac{1}{2}$ | between $\frac{1}{2}$ and 1 | greater than 1 |
|-------------------------|-----------------------------|----------------|
| | | |







$$\frac{5}{6}$$

$$\frac{5}{8}$$

$$\frac{5}{4}$$

$$\frac{1}{6}$$

$$\frac{1}{3}$$

$$\frac{3}{4}$$

$$\frac{6}{4}$$

$$\frac{7}{4}$$

$$\frac{1}{4}$$

$$\frac{2}{8}$$

$$\frac{3}{5}$$

$$\frac{1}{8}$$

$$\frac{4}{12}$$

$$\frac{6}{10}$$

$$\frac{10}{12}$$

$$\frac{7}{8}$$

$$\frac{2}{3}$$

$$\frac{4}{3}$$

$$\frac{11}{12}$$

$$\frac{3}{10}$$



Multiplying One-Digit by One-Digit

$4 \times 3 = \underline{\quad}$

$9 \times 8 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$3 \times 9 = \underline{\quad}$

$7 \times 4 = \underline{\quad}$

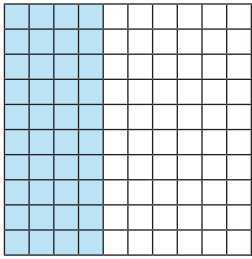
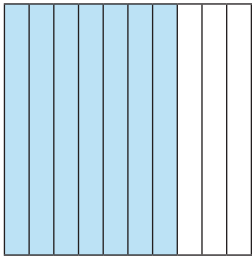
$8 \times 7 = \underline{\quad}$

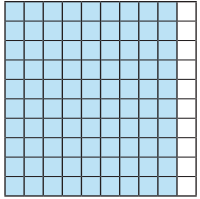
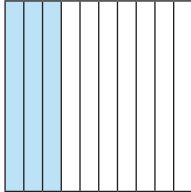
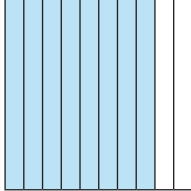
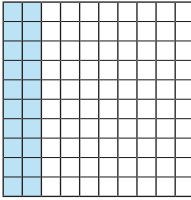
$6 \times 9 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$2 \times 6 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

| Model | Fraction | Decimal |
|---|------------------|---------|
|  | | |
| | $\frac{90}{100}$ | |
| | | 0.2 |
|  | | |
| | $\frac{3}{10}$ | |
| | | 0.80 |

| | |
|---|---|
| 0.3 |  |
|  | 0.09 |
|  | 0.90 |
| $\frac{80}{100}$ | 0.04 |
|  | $\frac{4}{10}$ |
| 0.07 | 0.40 |
| $\frac{7}{10}$ | $\frac{20}{100}$ |
| 0.70 | $\frac{2}{100}$ |

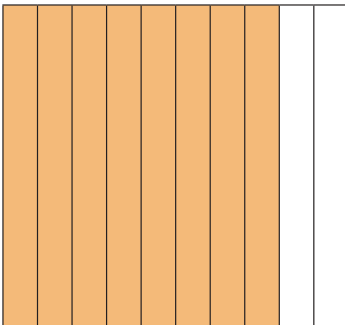
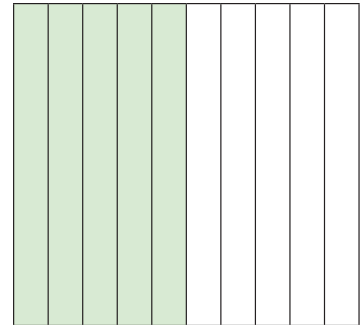
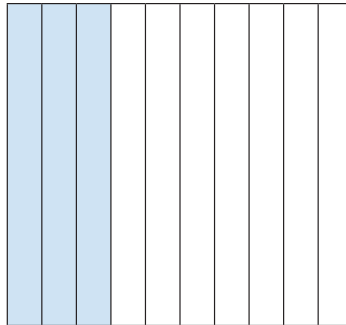
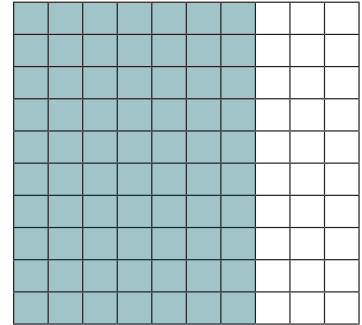
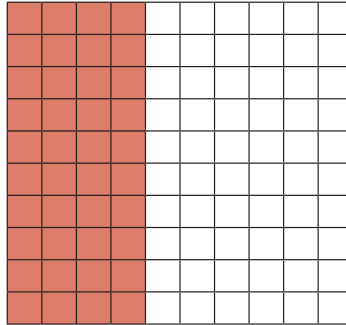
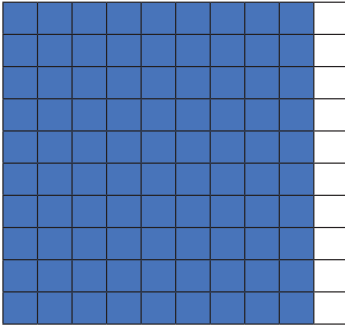
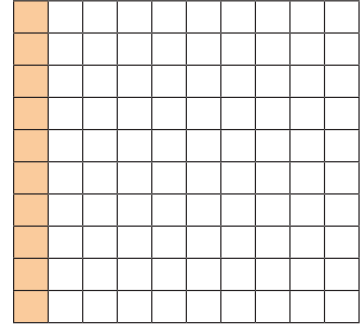
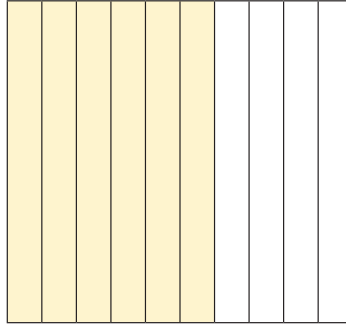




| | | |
|------------------|------------------|----------------|
| $\frac{70}{100}$ | 0.7 | 0.1 |
| 0.20 | 0.80 | $\frac{8}{10}$ |
| 0.30 | $\frac{3}{10}$ | 0.9 |
| 0.4 | $\frac{40}{100}$ | 0.50 |
| $\frac{90}{100}$ | $\frac{5}{10}$ | $\frac{2}{10}$ |



0.60



Choose any decimal!

Choose any decimal!



Choose any decimal!

Choose any decimal!

Choose any decimal!



Ordering Fractions

Least to Greatest

$$\frac{1}{8} \quad \frac{2}{4} \quad \frac{2}{5} \quad \frac{5}{5}$$

_____ , _____ , _____ , _____

$$\frac{2}{3} \quad \frac{1}{4} \quad \frac{7}{8} \quad \frac{7}{6}$$

_____ , _____ , _____ , _____

$$\frac{2}{3} \quad \frac{1}{2} \quad \frac{3}{5} \quad \frac{5}{6}$$

_____ , _____ , _____ , _____

Greatest to Least

$$\frac{5}{6} \quad \frac{3}{2} \quad \frac{2}{3} \quad \frac{1}{4}$$

_____ , _____ , _____ , _____

$$\frac{1}{5} \quad \frac{3}{10} \quad \frac{1}{3} \quad \frac{3}{2}$$

_____ , _____ , _____ , _____

$$3 \overline{) 69}$$

$$6 \overline{) 132}$$



$$9 \overline{) 108}$$

$$5 \overline{) 110}$$

There are 459 dandelion leaves, and they need to be split among 9 tortoises. How many leaves does each tortoise get?

$$9 \overline{) 459}$$



The petting zoo has 225 pounds of chicken feed to last for half a year. It needs to be divided equally among 5 chickens. How many pounds of feed does each chicken get?

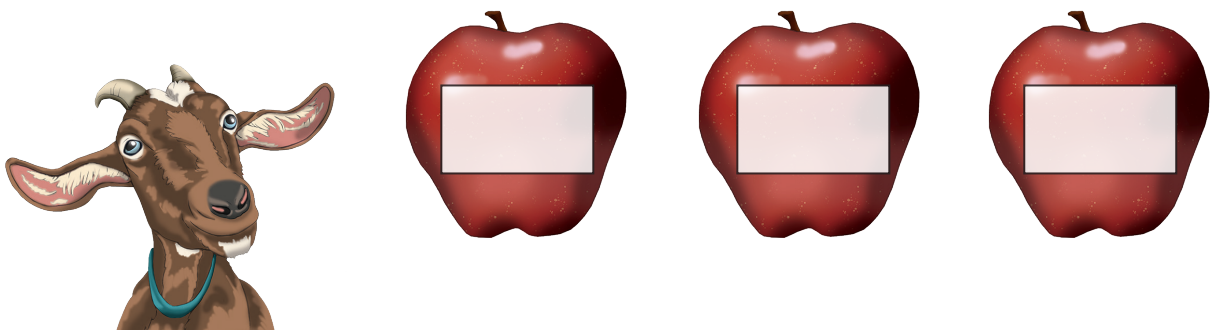
$$5 \overline{) 225}$$



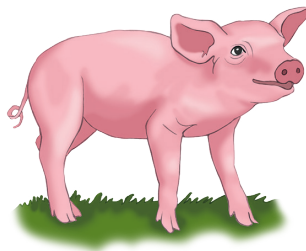
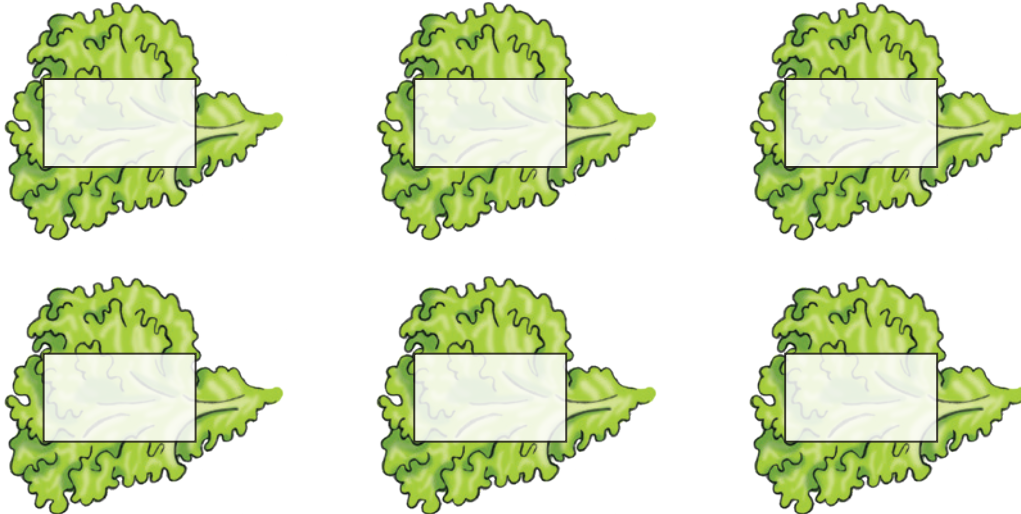
Volunteers at the petting zoo are preparing 6 baskets of carrot sticks for feeding the friendly donkeys. If they have 96 carrot sticks, how many go into each basket?



For a special treat, the staff prepare 114 apple slices for 3 visiting camper groups so they can feed the goats. If the slices are shared equally, how many apple slices does each group receive?



The staff at the petting zoo have 168 crisp lettuce leaves to share equally among 6 hungry piglets. If every piglet gets the same amount, how many lettuce leaves does each one receive?



$$126 \div 3 = \underline{\hspace{2cm}}$$

$$84 \div 4 = \underline{\hspace{2cm}}$$



A

$186 \div 6 =$

B

$288 \div 4 =$

C

$567 \div 9 =$

D

$70 \div 5 =$

E

$115 \div 5 =$

F

$182 \div 2 =$

G

$66 \div 3 =$

H

$96 \div 8 =$

I

$104 \div 8 =$

J

$252 \div 6 =$

K

$86 \div 2 =$

L

$65 \div 5 =$

M

$112 \div 7 =$

N

$376 \div 8 =$

O

$55 \div 5 =$

P

$144 \div 6 =$

Player 1

| | | |
|----|----|----|
| 23 | 31 | 42 |
| 72 | 91 | 13 |

Player 2

| | | |
|----|----|----|
| 14 | 47 | 12 |
| 24 | 43 | 63 |

Player 1

| | | |
|----|----|----|
| 31 | 12 | 23 |
| 72 | 47 | 14 |

Player 2

| | | |
|----|----|----|
| 43 | 13 | 91 |
| 22 | 16 | 11 |

- 1.** Can compare fractions with like denominators.
(Circle your observation.) Yes No

Can compare fractions with like numerators.
(Circle your observation.) Yes No

Can compare fractions with unlike denominators.
(Circle your observation.) Yes No
Notes:

- 2.** Can order fractions with like denominators.
(Circle your observation.) Yes No

Can order fractions with like numerators.
(Circle your observation.) Yes No

Can order fractions with unlike denominators.
(Circle your observation.) Yes No
Notes:

- 3.** Can relate fractions, fraction models, mixed numbers, and decimals.
(Circle your observation.) Yes No
Notes:

- 4.** Can determine if a number of tenths and hundredths are equivalent or not.
(Circle your observation.) Yes No
Notes:

- 5.** Can round decimals to the nearest whole.
(Circle your observation.) Yes No

Can round decimals to the nearest tenth.
(Circle your observation.) Yes No
Notes:

- 6.** Can compare decimals using a comparison symbol.
(Circle your observation.) Yes No

Can order a group of decimals from least to greatest.
(Circle your observation.) Yes No
Notes:

- 7.** Can use partial products to multiply a multi-digit number by one-digit number.
(Circle your observation.) Yes No

Can use partial products to multiply 2 two-digit numbers.
(Circle your observation.) Yes No
Notes:

- 8.** Can use partial quotients to divide two- and three-digit dividends by one-digit divisors.
(Circle your observation.) Yes No
Notes:

- 9.** Can identify the remainder in a division problem.
(Circle your observation.) Yes No

Can interpret a remainder in a division story problem.
(Circle your observation.) Yes No
Notes:

- 10.** Can multiply a whole number by a fraction.
(Circle your observation.) Yes No
Notes:

- 11.** Can add fractions with the same denominator.
(Circle your observation.) Yes No

Can add mixed numbers with the same denominator.
(Circle your observation.) Yes No
Notes:

- 12.** Can subtract fractions with the same denominator.
(Circle your observation.) Yes No

Can subtract mixed numbers with the same denominator.
(Circle your observation.) Yes No
Notes:

- 13.** Can use equivalent fractions to add tenths and hundredths.
(Circle your observation.) Yes No
Notes:

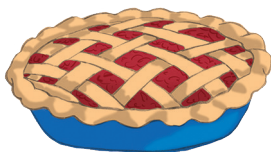
- 14.** Can convert between units of measure.
(Circle your observation.) Yes No
Notes:

- 15.** Can classify shapes based on different properties.
(Circle your observation.) Yes No
Notes:

| | | |
|---------------------------|-----|----|
| parallel lines | Yes | No |
| perpendicular lines | Yes | No |
| at least one acute angle | Yes | No |
| at least one obtuse angle | Yes | No |
| at least one right angle | Yes | No |

| Number | Rounded to the Nearest Whole | Rounded to the Nearest Tenth |
|--------|------------------------------|------------------------------|
| 0.67 | | |
| 5.23 | | |

1. There are 123 people signed up to volunteer at the bake sale. The volunteers are split into groups of no more than 8 and assigned a task to help with. How many groups will there be so that all the volunteers can participate?



2. There were 3,253 treats made for the bake sale. The items will be divided to fill the tables in 9 different stations. How many treats can be placed at each station?



Subtracting Fractions

$$\frac{10}{12} - \frac{7}{12} = \underline{\hspace{2cm}}$$

$$5\frac{2}{4} - 3\frac{1}{4} = \underline{\hspace{2cm}}$$

$$8\frac{5}{6} - 4\frac{3}{6} = \underline{\hspace{2cm}}$$

$$2\frac{3}{8} - 1\frac{7}{8} = \underline{\hspace{2cm}}$$

$$9\frac{4}{10} - 6\frac{5}{10} = \underline{\hspace{2cm}}$$

At the arcade, the games are set up in 9 aisles. There are 12 games in each of the first 8 aisles and the last aisle has 17 games. How many games are at the arcade?

| Strategy | Work |
|---------------|------|
| tape diagram | |
| drawing | |
| manipulatives | |
| equation | |

1. You and 5 friends have \$45 to exchange for tokens at the arcade. Each dollar is worth 4 tokens. If you and your 5 friends split the tokens equally, how many tokens will each person get?



2. In the first 2 hours at the arcade, Benji played 7 games and earned 146 tickets after each game. Sophia played 12 games and got 98 tickets after each game. Alex earned 75 tickets after each of the 9 games he played. How many more tickets has Sophia won than Benji?

3. You used all your tokens and won 2,357 tickets at the arcade! You decide to cash in your tickets for some prizes. There is a small stuffed animal for 340 tickets and a large one for 685 tickets. You choose to get the large stuffed animal. Then, with your remaining tickets, you choose 4 beach toys. If the beach toys each cost the same number of tickets, how much did each beach toy cost?



4. The basketball game at the arcade gives each player 17 tickets for each shot made the first minute and 24 tickets for each shot made in the last 30 seconds. Alex made 14 shots in the first minute and 12 shots in the last 30 seconds. When time was up, he had made 2 fewer baskets than his best score. How many tickets did Alex win playing this time?



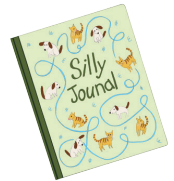
5. Sophia won 3,009 tickets at the arcade. She decides to give 450 of her tickets to Darren so he will have enough to get the prize he wants. Sophia wants to use her remaining tickets to get 3 tech toys. If each toy needs 850 tickets, does she have enough tickets to get all 3 of them? If so, how many tickets will she have left?

6. Benji's mom gave him \$10 to spend on snacks and \$24 to spend on extra tokens at the arcade. Each dollar spent on tokens is worth 4 tokens. Benji decides to split the tokens equally with you. If you already have 96 tokens, how many will you have in total?



| Prizes | Ticket Price |
|--------------|---------------|
| Beach Ball | 785 tickets |
| Headphones | 3,242 tickets |
| Skateboard | 8,673 tickets |
| Journal | 1,091 tickets |
| Jump Rope | 542 tickets |
| Chapter Book | 2,548 tickets |

Jenny won 4,546 tickets during the 2 hours she spent at the arcade. She decides to get a journal and 4 jump ropes. How many tickets does Jenny spend on prizes?



Tate spent 150 tokens at the arcade and won 11,577 tickets. He decides to get the skateboard and 3 beach balls. What can he buy with his leftover tickets?



Veronica won 6,002 tickets at the arcade. She decides to buy the headphones and then give her remaining tickets to her 2 sisters. If she gives each sister the same number of tickets, how many tickets will they each get?

| Prizes | Ticket Price |
|--------------|---------------|
| Beach Ball | 785 tickets |
| Headphones | 3,242 tickets |
| Skateboard | 8,673 tickets |
| Journal | 1,091 tickets |
| Jump Rope | 542 tickets |
| Chapter Book | 2,548 tickets |

Maria won 2,652 tickets at the arcade and her cousin won 2,987 tickets. They decide to combine their tickets to purchase the chapter book and a jump rope. How many tickets will they have left over? Do they have enough to get another chapter book?



Chloe bought 2 snacks and won a total of 4,358 tickets at the arcade. She wants to buy a journal for herself and three of her friends. Does she have enough tickets? If not, how many more tickets will she need?

Parker and his two friends decide to combine all the tickets they each won and split them evenly among themselves. Parker won 1,472 tickets and his two friends together won 2,554 tickets. How many tickets will each person get? If they each choose one prize, what can they pick?

Each dollar you spend on tokens at the arcade gets you 13 extra tickets. Finn spends \$20 on tokens and \$7 on snacks. Reece spends \$15 on tokens. How many extra tickets does Finn have compared to Reece?



Eli played a racing game at the arcade. He won 422 tickets in all during his first four races and 374 tickets in all for his last four races. He also played a matching game to win 232 tickets. If Eli evenly splits his tickets from the racing game to buy 4 prizes, how many tickets does each prize cost?

Jacob has 256 tokens to spend playing games at the arcade and \$15 to spend on snacks. He decides to play 28 different games that each cost 4 tokens. With his remaining tokens, he wants to play as many games as possible, each costing 3 tokens. How many more games can Jacob play?

Laura, Kelsey, and Chris decide to combine their tickets to get the grand prize that costs 10,000 tickets. Laura has 3,771 tickets, Kelsey has 4,052 tickets, and Chris has 2,056 tickets. Do they have enough tickets for the grand prize? If not, how many more tickets do they need?





You won 2,987 tickets last weekend at the arcade and 3,008 tickets today. You pick out a prize that costs 1,458 tickets. How many tickets do you have left?

You won 7 tickets!

Kari has 329 tokens to spend at the arcade. She uses 155 of them to play games. She gives away her leftover tokens and splits them evenly among her 3 cousins. How many tokens does each cousin get?

You won 10 tickets!

There are 400 tokens evenly split among 5 friends. If only games that cost 2 tokens are played, how many games can each person play at the arcade?

You won 5 tickets!

Sydney has \$12 to spend on tokens at the arcade for her and her brother. Each dollar can be traded for 4 tokens. If they split the tokens evenly, how many will Sydney and her brother each get?

You won 9 tickets!

With your arcade tickets, you choose to get a stuffed animal that is 900 tickets and 2 bookmarks that are each 124 tickets. How many tickets did you spend?

You won 4 tickets!

Ava wins 234 tickets playing a sports game and 456 tickets playing a racing game. If she gets a prize that costs 615 tickets, how many tickets will she have left?

You won 6 tickets!

You won 1,432 tickets at the arcade! You buy 4 bookmarks that are 126 tickets each and a pen for 209 tickets. How many tickets do you have left to spend?

You won 10 tickets!

Beckett wants to get 5 prizes, each worth 485 tickets. He has 2,339 tickets so far. How many more tickets will he need to win the prizes?

You won 8 tickets!

A notepad is 345 tickets and a bouncy ball is 257 tickets. How many tickets do you need to get 2 of each prize?

You won 7 tickets!

Daryl plays the same game at the arcade 3 times. The first time he won 215 tickets, the second time he won 289 tickets, and the third time he won 300 tickets. If he uses all of his tickets to get 4 prizes that each cost the same number of tickets, how many tickets is each prize?

You won 9 tickets!



1 token to play



1 token to play



1 token to play



1 token to play



2 tokens to play



2 tokens to play



2 tokens to play



2 tokens to play



1 token to play



1 token to play



You spent 3 hours at the arcade and won 4,567 tickets. You decided to save 2,500 of your tickets. You spend all your remaining tickets on 3 prizes that each cost the same number of tickets. What is the cost of each prize?

K

You won 11 tickets!

Ellie won 1,065 tickets at the arcade on Saturday. On Sunday, she won 1,476 tickets. If she uses the tickets she won on Sunday to buy 2 toys that are 531 tickets each, how many Sunday tickets will she have left?

L

You won 15 tickets!

The budget for my birthday party is \$100. I decide to save \$40 for food to purchase 3 pizzas and spend the rest on tokens. Each dollar spent on tokens is traded for 4 tokens. How many tokens will I get?

M

You won 13 tickets!

Garrett wants 7 prizes at the arcade. Three of the prizes are 257 tickets each and 4 of the prizes are 386 tickets each. He has to wait 30 minutes at the prize counter. How many tickets does Garrett need to get all 7 prizes?

N

You won 14 tickets!

You won 5 games of air hockey and lost 2 games. The winner of each game gets 49 tickets. Do you have enough tickets to buy a prize that is 136 tickets and another prize that is 115 tickets?

O

You won 11 tickets!

Harry purchases 544 tokens to split equally among himself and his 7 friends. One friend has to leave 30 minutes early and gives his 54 leftover tokens to Harry. How many tokens did Harry have in all?

P

You won 14 tickets!

On Friday, the arcade sold 50 boxes of popcorn for \$4 each. They also sold 9 prizes each worth 240 tickets, and 15 prizes each worth 384 tickets. How many tickets were traded in for all of these prizes?

Q

You won 13 tickets!

Eileen spends 2 hours at the arcade getting tickets. She uses her tickets to get 5 stuffed animals that are 324 tickets each. If she had 2,000 tickets to spend, how many tickets does she have left?

R

You won 12 tickets!

You have \$10 to spend on tokens and \$10 to spend on snacks at the arcade. Each dollar spent on tokens is traded for 4 tokens. Today, they are giving each person an extra 10 tokens for visiting. If you spend half of your tokens in the first hour, how many tokens do you have left?

S

You won 12 tickets!

Molly won 4,751 tickets at the arcade. She wants to buy 3 prizes that are each 1,207 tickets and 2 prizes that are each 957 tickets. How many more tickets does she need to get all 5 prizes?

T

You won 15 tickets!



3 tokens to play



3 tokens to play



3 tokens to play



3 tokens to play



3 tokens to play



3 tokens to play



4 tokens to play



4 tokens to play



4 tokens to play



4 tokens to play

CERTIFICATE OF ACHIEVEMENT



ALL ABOUT[®] *Math*

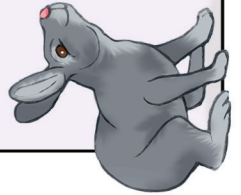


awarded to

for successfully completing Level 4

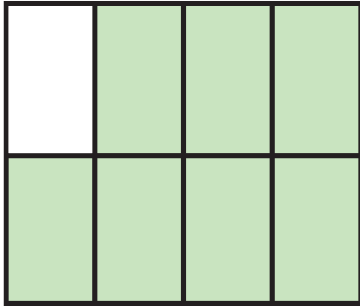
Teacher's Signature

Date

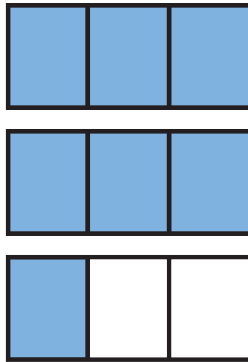


Before you begin, please refer to the instructions in the *All About Math* teacher's manual on page 9.

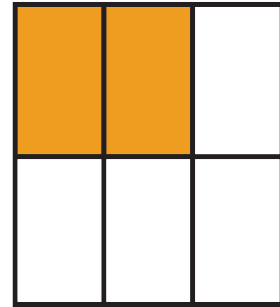
- Write the fraction that represents the shaded part in each model. Then read the fraction.



fraction: _____

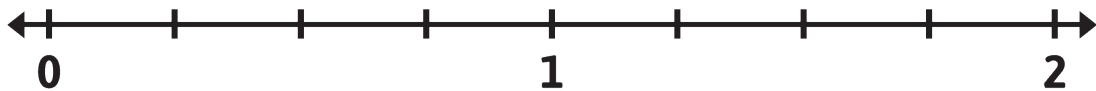


fraction: _____

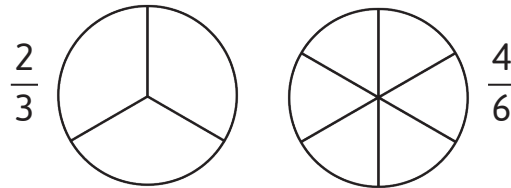


fraction: _____

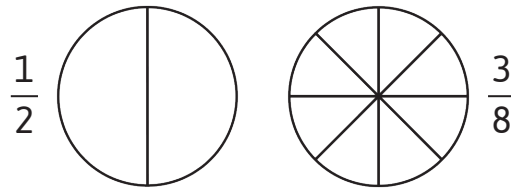
- Label the tick marks on each number line with a fraction.



3. Shade each model to represent the fraction. Then, compare the models to determine if the fractions are equivalent.



Are the fractions equivalent? YES NO



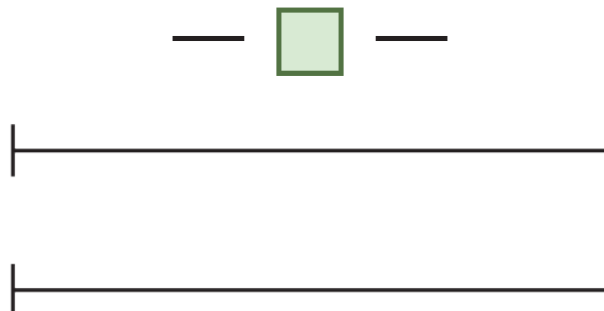
Are the fractions equivalent? YES NO

4. Write the fractions from each situation. Use the models and number lines to represent the fractions. Then, write the comparison symbol to make the statements true.


Jenny walked $\frac{3}{8}$ of a mile. Jacob walked $\frac{3}{4}$ of a mile. Who walked more?



A loaf of banana bread is cut into sixths. Zack ate $\frac{5}{6}$ of the loaf and Zoey ate $\frac{1}{6}$ of the loaf. Who ate less banana bread?



5. Represent equal groups using a multiplication expression, repeated addition expression, array, and tape diagram.

| | 3 groups of 8 | 4 groups of 5 | | | |
|------------------------------|---|---|---|---|--|
| Multiplication Expression | 3×8 | | | | |
| Repeated Addition Expression | | $5 + 5 + 5 + 5$ | | | |
| Tape Diagram | <table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">8</td> <td style="padding: 5px;">8</td> <td style="padding: 5px;">8</td> </tr> </table> | 8 | 8 | 8 | |
| 8 | 8 | 8 | | | |
| Array | |  | | | |

6. Represent each story problem with an array and equation. Then, use the array to answer the question.

There are 30 peppers in boxes, with 5 in each box. How many boxes of peppers are there?

Equation: _____

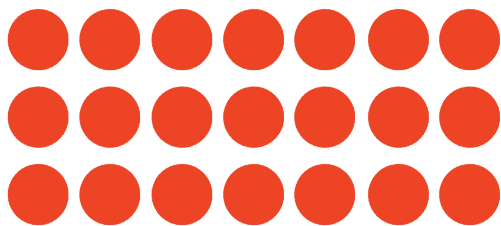
Answer: _____

A gardener plants seven rows of lettuce with seven plants in each row. When the planting is finished, how many lettuce plants are there in total?

Equation: _____

Answer: _____

7. Write two multiplication equations and two division equations to represent the array.



| | | | | |
|----------------------|---|----------------------|---|----------------------|
| <input type="text"/> | x | <input type="text"/> | = | <input type="text"/> |
| <input type="text"/> | x | <input type="text"/> | = | <input type="text"/> |
| <input type="text"/> | ÷ | <input type="text"/> | = | <input type="text"/> |
| <input type="text"/> | ÷ | <input type="text"/> | = | <input type="text"/> |

8. Fill in the related multiplication and division number sentences using the number sentence at the top.

$$9 \times 7 = 63$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$48 \div 6 = 8$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

9. Find the product using a tape diagram, manipulatives, or another strategy.

$$3 \times 24 = \underline{\hspace{2cm}}$$

$$6 \times 16 = \underline{\hspace{2cm}}$$

10. Find the quotient for the division equations using models or related multiplication facts. You can use the dry-erase board to draw your models.

$$84 \div 4 = \underline{\hspace{2cm}}$$

$$98 \div 7 = \underline{\hspace{2cm}}$$

11. Write equations to represent each two-step story problem and then solve the story problem.

One morning in the Nature Preserve, a volunteer recorded seeing 3 groups of woodpeckers, with 21 in each group. He also saw 7 robins. In the afternoon, he recorded 29 more woodpeckers. How many woodpeckers did he see in total?

Step One Equation: _____

Step Two Equation: _____

Answer: _____ woodpeckers

A birdwatcher saw hummingbirds and bees on all 5 of the feeders in his yard. There were 8 hummingbirds and 2 bees at each feeder. Later, 14 of the hummingbirds left the feeders. How many hummingbirds remained?

Step One Equation: _____

Step Two Equation: _____

Answer: _____ hummingbirds

12. Read the number below aloud. Then, tell the place and value of each digit.

513,462,891

Read the following number aloud. Then, write the number using digits.

three hundred ninety-two million, four hundred sixty-five thousand, seven hundred eighty-five:

_____ , _____ , _____

13. Use place value to compare the two numbers. Then, write a comparison symbol ($>$, $<$, or $=$) on the line to make the statement true.

791,391 _____ 782,591

219,048 _____ 219,182

14. List the following numbers in order from least to greatest.

421,310 392,902 311,745 512,124

List the following numbers in order from greatest to least.

712,416 731,455 722,031 791,458

15. Round each number to the nearest 1,000, nearest 10,000 and nearest 100,000 to complete the table.

| | Nearest 1,000 | Nearest 10,000 | Nearest 100,000 |
|---------|---------------|----------------|-----------------|
| 675,453 | | | |
| 392,794 | | | |

16. Complete the chart by filling in the name of the 2D or 3D shape or attribute. A word list has been provided.


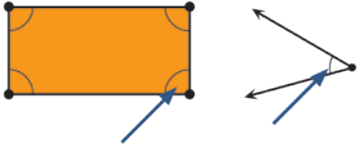



angle

cone

cylinder

parallel

quadrilateral

| Shape | Name of Shape |
|---|---------------|
|  | |
|  | |
|  | |
|  | |
|  | |