

# Applying the Standards: Math 

## Grade 3

## Credits

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## Introduction

The purpose of this book is to engage students in applying the standards to real-world, higher-level thinking problems. Each Common Core mathematics standard is covered by one or more practice pages.

Students will be expected to answer a few straightforward problems to prove basic understanding of the standard. Then, they are presented with a higher-level thinking problem. These problems are designed to require students to demonstrate their complete understanding and flexibility with the standard. Finally, a reflection question guides students to review their work on the previous problem. The reflection questions are designed to support the Standards for Mathematical Practice as students are asked to study their approaches, their successes, and their struggles.

Use the included rubric to guide assessment of student responses and further plan any necessary remediation. Understanding and applying mathematical knowledge to realistic problems is an invaluable skill that will help students succeed in their school years and beyond.

## Common Core Alignment Chart

Use this chart to plan your instruction, practice, or remediation of a specific standard. To do this, first choose your targeted standard; then, find the pages listed on the chart that correlate to the standard.

| Common Core State Standards* |  | Practice Pages |
| :---: | :---: | :---: |
| Operations and Algebraic Thinking |  |  |
| Represent and solve problems involving multiplication and division. | 3.OA.1-3.OA. 4 | 5-16 |
| Understand properties of multiplication and the relationship between multiplication and division. | 3.OA.5, 3.OA. 6 | 17-22 |
| Multiply and divide within 100. | 3.OA. 7 | 23-24 |
| Solve problems involving the four operations, and identify and explain patterns in arithmetic. | 3.OA.8, 3.OA. 9 | 25-26 |
| Number and Operations in Base Ten |  |  |
| Use place value understanding and properties of operations to perform multi-digit arithmetic. | 3.NBT.1-3.NBT. 3 | 27-31 |
| Number and Operations-Fractions |  |  |
| Develop understanding of fractions as numbers. | 3.NF.1-3.NF. 3 | 32-43 |
| Measurement and Data |  |  |
| Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. | 3.MD.1, 3.MD. 2 | 44-45 |
| Represent and interpret data. | 3.MD.3, 3.MD. 4 | 46-47 |
| Geometric measurement: understand concepts of area and relate area to multiplication and to addition. | 3.MD.5-3.MD. 7 | 48-55 |
| Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. | 3.MD. 8 | 56 |
| Geometry |  |  |
| Reason with shapes and their attributes. | 3.G.1, 3.G. 2 | 57-62 |

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## Problem-Solving Rubric

Use this rubric as a guide to assess students' written work. It can also be offered to students to help them check their work or as a tool to show your scoring.

| 4 | Answers all of the problems correctly <br> Identifies all of the key numbers and operations in the problem Uses an appropriate and complete strategy for solving the problem Skillfully justifies answer and strategy used Offers insightful reasoning and strong evidence of critical thinking Provides easy-to-understand, clear, and concise answers |
| :---: | :---: |
| 3 | Answers most of the problems correctly <br> Identifies most of the key numbers and operations in the problem Uses an appropriate but incomplete strategy for solving the problem Justifies answer and strategy used Offers sufficient reasoning and evidence of critical thinking Provides easy-to-understand answers |
| 2 | Answers some of the problems correctly <br> Identifies some of the key numbers and operations in the problem Uses an inappropriate or unclear strategy for solving the problem <br> Attempts to justify answer and strategy used <br> Demonstrates some evidence of critical thinking <br> Provides answers that are understandable but lack focus |
| 1 | Answers most or all of the problems incorrectly <br> Identifies few or none of the key numbers and operations in the problem <br> Uses no strategy or plan for solving the problem <br> Does not justify answer and strategy used <br> Demonstrates limited or no evidence of critical thinking <br> Provides answers that are difficult to understand |

Name $\qquad$
Solve. Then, draw a line from each multiplication problem to the matching phrase.
$\qquad$
2. $2 \times 5=$ $\qquad$
3. $4 \times 2=$ $\qquad$
4. $5 \times 5=$ $\qquad$

4 groups of 2
5 groups of 5
2 groups of 5
3 groups of 2

Solve. Show your mathematical thinking.
5. The Girls' Club meets 3 times every week at their clubhouse. At each meeting, the girls complete 2 community service projects. How many community service projects will they complete over a 6 -week period?

How can drawing a diagram help you solve problem 5?

Name $\qquad$
Draw a picture to show each problem. Then, solve.

1. $4 \times 4=$ $\qquad$ 2. $3 \times 3=$ $\qquad$
2. $5 \times 5=$ $\qquad$ 4. $2 \times 7=$ $\qquad$

Solve. Show your mathematical thinking.
5. Jayla found 11 starfish. Each starfish had 5 arms. If Jayla's sister found 10 more starfish, and Jayla's brother found 8 more starfish, how many starfish arms did they find in all?

Reflect
Explain two different ways to solve problem 5.

Name $\qquad$
Solve.

1. 1
$\times 4$
2. 6
$\begin{array}{r}\times 7 \\ \hline\end{array}$
3. 5
$\times 4$
4. 2
$\times 9$
5. 8
$\times 6$

Solve. Show your mathematical thinking.
6. The mail carrier delivers letters to 8 houses on a city block. He delivers 3 letters to each house. How many letters does the mail carrier deliver in all? How many letters will the mail carrier deliver if he has 5 city blocks that each have 8 houses, and he delivers 3 letters to each house?

## Reflect

Explain why the mail carrier may only have 114 letters on some days or 153 letters on other days.

Name $\qquad$
Solve.

1. $21 \div 3$ How many threes are in 21 ? $\qquad$
2. $30 \div 5$ How many fives are in 30 ? $\qquad$
3. $36 \div 9$ How many nines are in 36 ? $\qquad$
4. $18 \div 6$ How many sixes are in 18 ? $\qquad$

Solve. Show your mathematical thinking.
5. Jan is making a quilt. She wants the quilt to be 8 squares tall and 7 squares wide. She has 168 hand-sewn stars to put on the quilt sqaures. If each square has an equal number of stars, how many stars will she sew onto each square?

## Reflect

How would your answer change if the quilt were 6 squares tall and 7 squares wide?
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Draw a picture to show each problem. Then, solve.

1. $10 \div 2=$ $\qquad$ 2. $24 \div 3=$ $\qquad$ 3. $9 \div 1=$ $\qquad$ 4. $40 \div 8=$ $\qquad$

Solve. Show your mathematical thinking.
5. Terrance tackled a total of 42 football players in the last 6 games. He tackled the same number of players each game. How many players did Terrance tackle each game? If he continues to tackle 42 players every 6 games, how many total players will Terrance have tackled after 12 games? After 18 games?

## Reflect

Explain the pattern you see in problem 5.

Name $\qquad$
Solve.

1. $63 \div 7=$ $\qquad$ 2. $45 \div 9=$ $\qquad$ 3. $16 \div 4=$
2. $20 \div 5=$ $\qquad$
3. $18 \div 6=$ $\qquad$
4. $48 \div 8=$ $\qquad$

Solve. Show your mathematical thinking.
7. Alexa knocked down 70 bowling pins in 10 frames. In each frame, Alexa knocked down the same number of pins. How many pins did Alexa knock down in each frame? If Alexa knocked down 80 bowling pins in 10 frames in the second game, and 60 bowling pins in 10 frames in the third game, what was the total number of bowling pins Alexa knocked down in all three games?

Reflect
Describe Alexa's bowling ability based on the three games she bowled in problem 7.

Name $\qquad$
Solve.

1. Rudy had 6 bags. He placed 9 marbles in each bag. How many marbles did he have altogether? $\qquad$
2. The store display had 9 shelves. The stock boy placed 9 boxes of cereal on each shelf. How many boxes of cereal were on display? $\qquad$
3. Zach runs 6 miles, 5 days a week. How many miles does he run in one week?

Solve. Show your mathematical thinking.
4. Jenna writes 2 pages in her diary each day of the week. How many pages does she write each week? About how many pages does she write each month? Each year?

## Reflect

What information do you need to know to calculate the exact number of pages Jenna writes each month and each year?

Name $\qquad$
Solve.

1. David has 12 goldfish. He has 2 fish tanks. How many goldfish will be in each tank if he divides them evenly? $\qquad$
2. Daysha bought 8 bracelets. She will wear the same number on each wrist. How many bracelets will she have on each wrist? $\qquad$
3. Mischa had 81 beads to make necklaces. She used 9 beads for each necklace. How many necklaces did she make? $\qquad$

Solve. Show your mathematical thinking.
4. Michaela has 46 crayons. She has 6 bins. She wants to keep the same number of crayons in each bin. How many more crayons will she need to fill another bin?

Reflect
Explain a different way to solve problem 4.

Name $\qquad$
Solve.

1. Taron has 4 stacks of cards with 8 cards in each stack. How many cards does he have? $\qquad$
2. Jennifer jumped over 5 rocks. She jumped over each rock 9 times. How many times did she jump? $\qquad$
3. Ms. Martinez made a scrapbook for her daughter. The scrapbook had 7 pages. Each page had 6 pictures. How many pictures were in the scrapbook?

Solve. Show your mathematical thinking.
4. John has 147 baseball cards. He keeps his baseball cards in notebooks. Each notebook has 8 pages. Each page can hold 9 cards. Will two notebooks be enough to hold all of his cards? If not, how many cards will be leftover? How many more cards will he need to fill another notebook?

## Reflect

Explain the steps you used to solve problem 4.

Name $\qquad$
Solve.

1. $3 \times$ $\qquad$ $=27$
2. $3 \times$ $\qquad$ $=42$
3. $5 \times$ $\qquad$ $=50 \quad 4.12 \times$ $\qquad$ $=36$

Solve. Show your mathematical thinking.
5. A group of girls who collect buttons have 64 buttons altogether. Each girl has 8 buttons in her individual collection. If each girl brings an additional 5 buttons to their group meeting to donate to a shirt-making charity, how many buttons will they donate to the charity?

Write at least 2 unknown factor equations that could be used to answer problem 5.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Solve.

1. $48 \div$ $\qquad$ $=8 \quad 2.36 \div$ $\qquad$ $=6$
2. $36 \div$ $\qquad$ $=4$ 4. $\qquad$ $\div 7=6$

Solve. Show your mathematical thinking.
5. There are 24 car tires at the car shop. What is the greatest number of cars the shop can fix with the amount of tires the shop has? What is the fewest amount of cars the shop can fix?

## Reflect

What information do you need to know that problem 5 does not tell you? Explain.

Name $\qquad$
Solve. Write a related multiplication or division fact to help you.

1. $\qquad$ $\times 7=63$
2. $10=$ $\qquad$ $\div 3$
3. $8 \times$ $\qquad$ $=40$
4. $63 \div$ $\qquad$ $=9$
$\qquad$

Solve. Show your mathematical thinking.
5. A zoo has 72 birds. The birds live in 9 different habitats. Four of the habitats can have no more than 6 birds, and none of the other habitats can have more than 10 birds. How can the birds be divided between the habitats?

## Reflect

How could drawing a model help you solve problem 5?

Name $\qquad$
Use the commutative property to complete each equation.

1. $8 \times 3=3 \times$
2. $7 \times 2=2 \times$ $\qquad$ 4. $4 \times 3=3 \times$ $\qquad$

Solve. Show your mathematical thinking.
5. Joe has 48 photos. He would like to arrange them in a rectangle to fit on the wall above his bed. How many rows and columns would make the best arrangement? Explain.

## Reflect

Write 2 equations that can help you solve problem 5.

Name $\qquad$
Use the associative property to solve each problem in two different ways.

1. $2 \times 6 \times 1=$ $\qquad$
2. $7 \times 4 \times 3=$ $\qquad$
3. $8 \times 3 \times 2=$ $\qquad$

Solve. Show your mathematical thinking.
4. Logan has 10 friends. Each friend has 5 packages of gum. Each package of gum has 4 pieces. How many pieces of gum do Logan's friends have altogether? Logan multiplies 50 packages by 4 pieces to find how many pieces of gum there are in all. Logan's friend Javon says each person has 20 pieces of gum, so he should multiply 20 by 10 . Who is right? Explain.

## Reflect

How does the associative property of multiplication help solve problems like problem 4?

Name $\qquad$
Use the distributive property to complete each problem.

1. $7 \times 8=\square$
2. $3 \times 17=\square$
$3 \times($ $\qquad$ $+$ $\qquad$
(7× $\qquad$ ) $+(7 \times$ $\qquad$
$\left(3 \times \_\right)+(3 \times$ $\qquad$
$\qquad$ $+$ $\qquad$ $=$ $\qquad$ $+$ $\qquad$ $=$ $\qquad$
3. $5 \times 22=\square$
$5 \times($ $\qquad$ $+\quad$ )
(5 $\times$ $\qquad$ $)+(5 \times$ $\qquad$ )
$\qquad$ $+$ $\qquad$ $=$ $\qquad$
4. $8 \times 10=\square$
$8 \times($ $\qquad$ $+$ $\qquad$
(8× $\qquad$ ) $+(8 \times$ $\qquad$
$\qquad$ $+$ $\qquad$
$\qquad$

Solve. Show your mathematical thinking.
5. Delia has not learned her multiplication facts above the 9s facts. Show her how she can solve the following problem using only the multiplication facts she knows.

$$
6 \times 13=
$$

## Reflect

Is it possible to get the same answer to problem 5 using different numbers? Explain.

Name $\qquad$
Write a related multiplication sentence for each problem.

1. $30 \div 6=5$ $\qquad$
2. $40 \div 5=8$ $\qquad$
3. $63 \div 7=9$ $\qquad$
4. $24 \div 3=8$ $\qquad$

Solve. Show your mathematical thinking.
5. Noah has 18 marbles to share equally between his 6 friends. But, he does not know his division facts. His friends Josh and Amy both tell him each person should get 3 marbles, but they got their answers different ways. Whom should Noah trust? Why?

$$
\text { Josh: } ? \times 6=18
$$

3

Amy: $6 \times \cdot=18$
$\cdot=3$

How can drawing a diagram help you solve problem 5?

Name $\qquad$
Solve.

1. $\qquad$ $\div 8=2$
2. $27 \div$ $\qquad$ $=3$
3. $32 \div 4=$ $\qquad$
4. $48 \div$ $\qquad$ $=8$
5. $\qquad$ $\div 8=7$

Solve. Show your mathematical thinking.
6. Bonnie had 63 hair bows. She wanted to share her hair bows with some of her friends. If each friend got 9 hair bows, how many friends did Bonnie give hair bows to? Write two unknown-factor equations that can be used to solve the problem.

## Reflect

Does it matter which one of the unknown factor problems is used to solve problem 6? Explain.

Name $\qquad$
Solve. Then, draw a line from each division problem to the related multiplication problem.

1. $\qquad$ $\div 5=7$
$9 \times 4=36$
2. $24 \div$ $\qquad$ $=4$
$7 \times 5=35$
3. $28 \div 7=$ $\qquad$ $6 \times 4=24$
4. $\qquad$ $\div 9=4$

Solve. Show your mathematical thinking.
5. Holly has 56 pieces of paper and some paper clips. If she clips 7 pieces of paper together with each paper clip, how many paper clips will she need? Write an unknown-factor equation and a related division equation that can be used to solve this problem.

## Reflect

Rewrite the word problem in problem 5 to match the unknown factor equation you wrote.

Name $\qquad$
Solve.

1. 6
2. 7
$\begin{array}{r}7 \\ \hline\end{array}$
3. 9
$\times 3$
4. 4
5. 5
$\times 8$ $\begin{array}{r} \\ \times 9 \\ \hline\end{array}$

Solve. Show your mathematical thinking.
6. Samantha and her friends are planting tomatoes. Samantha plants 5 rows of 4 tomato seedlings. One friend plants 2 rows of 4 seedlings, another friend plants 10 rows of 6 seedlings, and a third friend plants 5 rows of 3 seedlings. How many tomato seedlings do Samantha and her friends plant altogether?

## Reflect

Explain the steps you used to solve problem 6.

Name $\qquad$
Solve.

1. $6 \div 2=$ $\qquad$
2. $12 \div 3=$ $\qquad$
3. $15 \div 5=$
4. $10 \div 5=$ $\qquad$
5. $16 \div 2=$ $\qquad$ 6. $24 \div 6=$ $\qquad$

Solve. Show your mathematical thinking.
7. Lucy has 18 pansies, 12 geraniums, and 6 marigolds. How many flowerpots should Lucy buy so that she can divide the types of flowers up equally? Explain your choice.

Explain another way to solve problem 7.

Name $\qquad$
Solve.

1. Jeremy wants to make a fruit salad. He needs 1 basket of strawberries at $\$ 3.49$ per basket, 1 pineapple at $\$ 1.99$ each, and 1 pound of cherries at $\$ 2.99$ per pound. If he pays with a $\$ 10.00$ bill, will he get change back? Explain.
$\qquad$
$\qquad$
2. Ava and Casey were playing basketball. Ava won twice as many times as she lost. She won 14 games. How many games did the girls play?

Solve. Show your mathematical thinking.
3. Andrew has 6 quarters. Does he have enough money to buy 1 pineapple at $\$ 1.99$ each? Explain.

## Reflect

Explain why the following equation is incorrect for problem 3.
$\$ 6.00-\$ 1.99=b, b=\$ 4.01$

Name $\qquad$
Write the missing numbers to complete the pattern.

1. $2,4,6,8$, $\qquad$ , $\qquad$ -
2. $10,12,14$, $\qquad$ , $\qquad$ ,
3. 3, 6, 9, $\qquad$ 15, $\qquad$ , $\qquad$
4. $76,82,88$, $\qquad$
$\qquad$
$\qquad$

Solve. Show your mathematical thinking.
5. Penny wants to go to a theme park. Her ticket to the park will cost $\$ 65$. Penny has $\$ 9$ saved already. She earns $\$ 5$ a week doing chores around the house. How many weeks will it take Penny to save enough money to buy her ticket to the theme park?

Explain another way to solve problem 5.

Name $\qquad$
Round each number to the underlined place value.

1. 72 $\qquad$ 2. 49 $\qquad$ 3. 924
2. 689
$\qquad$

Solve. Show your mathematical thinking.
5. Janelle needs 200 seashells for a science project. She had 57 seashells. Her aunt sent her 26 more. Janelle says she still needs about 110 more seashells for the project. Her brother says she needs about 120 more seashells for the project. Who is right? Explain.

## Reflect

Explain the steps you used to solve problem 5.

Name $\qquad$
Round each number to the underlined place value.

1. 55 $\qquad$
2. 14 $\qquad$ 3. 284 $\qquad$ 4. 354 $\qquad$

Solve. Show your mathematical thinking.
5. Two third-grade classes collected about 800 soup can labels. Malia's class collected about 200 more labels than Sam's class. How many soup can labels could Malia's class and Sam's class each have collected to equal about 800?

Explain why Malia's class could not have collected only 195 soup can labels.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Solve.

1. 34
$+15$
2. 66
$-46$
3. 908
$\begin{array}{r}+61 \\ \hline\end{array}$
4. 825
-356
5. 263
$+347$

Solve. Show your mathematical thinking.
6. Roberto had 1,000 trading cards. He collected his trading cards over the years from 3 different places: Roberto's parents gave him some, his friends gave him some, and he bought some with his own money. Roberto's parents gave him more trading cards than his friends did and he received equal amounts of trading cards from 2 places. Describe a combination explaining how many cards Roberto could have collected from each place.

## Reflect

Avery says Roberto collected at least 811 trading cards from his parents. Can this be true? Explain.

Name $\qquad$
Solve.

1. 10
$\times 8$
2. 40
$\times 6$
3. 20
4. 90
$\times 2$
9
$\times$
5. 30
$\times 4$

Solve. Show your mathematical thinking.
6. Patrick's entire grade collected rings for a project. There were 2 third-grade classes participating in the project. First, each class was divided into 5 groups. There were 6 students in each group. If every student in third grade could wear rings on 7 fingers, how many rings did the classes have?

Describe any patterns you see in problem 6.

Name $\qquad$
Solve.

1. 10
$\times 7$
2. 60

7
$\times$
3. 80

5
$\times$
4. 50
$\times 4$
5. 10 $\times 5$

Solve. Show your mathematical thinking.
6. Lola's art club painted pictures for a local hospital. The club members divided into 4 groups and each group painted a different kind of picture: landscapes, still lifes, portraits, and abstract pictures. Each group painted 20 pictures for each floor of the hospital. If there are 9 floors in the hospital, how many of each type of picture did the whole hospital receive? How many total pictures did Lola's club paint?

Lola's club president said they painted about 800 pictures for the hospital. Is the president correct? Explain.
$\qquad$
Write each fraction.
1.


2.

3.

4.



Solve. Show your mathematical thinking.
5. There are 2 blue marbles, 3 red marbles, and 2 yellow marbles in a paper bag. What fraction of the marbles are red or yellow? If the number of marbles of each color in the bag was doubled, how would your answer change?

Would the answer to problem 5 change if the question asked what fraction of the marbles were red and yellow instead of red or yellow? Explain.

Name $\qquad$
Write each fraction.

1. $\bigcirc \bigcirc$ 00
2. 


3. $\square \square$
$\square \square$
4. 0000 0000 0000

Solve. Show your mathematical thinking.
5. Olivia made a dozen cookies. Of the batch, 7 of the cookies had chocolate chips and the rest had raisins. What fraction of the cookies had raisins? How would the fraction change if Olivia made a second batch with the same number of chocolate chip cookies? A third batch?

## Reflect

Describe the pattern as the total number of cookies increases in problem 5.

Name $\qquad$
Label the number line with the fractions.

1. $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}$


Solve. Show your mathematical thinking.
2. The two number lines are divided into eighths. Circle the correct number line and explain why the other one is incorrect.


## Reflect

Does the same logic used in problem 2 apply to other fraction number lines? Explain.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Mark and label each number line.

1. $0, \frac{1}{2}, 1$
2. $0, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1$

Solve. Show your mathematical thinking.
3. Joseph draws the number line shown. Redraw the number line and label it correctly. Explain what you fixed and why.


Reflect
Write two rules that will always apply when drawing fractions on a number line.

Name $\qquad$
Mark and label each number line.

1. $1,1 \frac{1}{2}, 2$
$\qquad$
2. $0, \frac{1}{3}, \frac{2}{3}, 1$

Solve. Show your mathematical thinking.
3. Mark and label each number line.
$0, \frac{1}{3}, \frac{2}{3}, \frac{3}{3}, 1$
$\qquad$
$0, \frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, 1$


What is the ending fraction for each number line? $\qquad$

Explain how you know your number lines are correct.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Write the equivalent fractions.
1.

2.

$\qquad$ $=$ $\qquad$

Solve. Show your mathematical thinking.
3. Carter draws the two number lines shown below to find out if the fractions $\frac{2}{8}$ and $\frac{1}{4}$ are equivalent fractions. First, he labels one with fourths, and then he labels the other with eighths. Are the fractions $\frac{2}{8}$ and $\frac{1}{4}$ equivalent? What is another pair of equilvalent fractions on the number lines?


## Reflect

Use the number lines in problem 3 to explain how number lines can be used to compare fractions and tell which fractions are greater or less than others.
$\qquad$
Shade in the shapes to make each equivalent fraction. Then, write the equivalent fraction.
1.

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

3.


$\frac{2}{3}$ or $\frac{4}{6}=$

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

Solve. Show your mathematical thinking.
4. Fiona has a pizza divided into fourths. Melissa has a pizza divided into eighths. Fiona ate $\frac{3}{4}$ of her pizza. How many slices does Melissa need to eat the same amount as Fiona?

## Reflect

Could you compare how much Fiona and Melissa ate if Fiona's pizza was shaped like a circle, and Melissa's pizza was shaped like a rectangle? Explain.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Draw a picture of each fraction. Write the missing numbers to show equivalent fractions.

1. $\frac{1}{3}=\frac{}{6}$
2. $\frac{1}{4}=\frac{}{8}$
3. $\frac{2}{3}=\frac{}{6}$

Solve. Show your mathematical thinking.
4. Ashton has $\frac{4}{6}$ of an apple pie left after his family picnic. Mia wants to trade Ashton some of her blueberry pie for the rest of his apple pie. Mia's blueberry pie is divided up into sevenths. To be fair, she needs to trade Ashton an equal amount or more of her blueberry pie. How much of her blueberry pie should she trade Ashton?

## Reflect

Do you think this a fair trade of pie between Ashton and Mia? Explain.

Name $\qquad$
Solve.

1. Complete the number line to show that $\frac{1}{3}$ and $\frac{2}{6}$ are equivalent.

2. Write the equivalent fractions.


Solve. Show your mathematical thinking.
3. Jose says that $\frac{5}{8}$ and $\frac{1}{2}$ are equivalent. Is he correct? Explain. Draw a number line to help you.

Reflect
Explain another strategy to help you solve problem 3.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Solve.

1. $\frac{20}{4}=$ $\qquad$ 2. $\frac{36}{4}=$
2. $\frac{16}{2}=$

Solve. Show your mathematical thinking.
4. Yolanda baked 6 sheet cakes for a party. She divided the cakes into fourths. Write a fraction that shows the amount of cake Yolanda baked for the party. When Yolanda arrives at the party she finds that someone else baked 3 more sheet cakes divided into fourths. How should the fraction change to show the total amount of cake at the party? Draw a picture to help you.

## Reflect

How do you know that the fraction is equal to the number of whole cakes in problem 4?
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Write $<,>$, or $=$ to compare each pair of fractions.

1. $\frac{1}{3} \bigcirc \frac{3}{3}$
2. $\frac{1}{4} \bigcirc \frac{3}{4}$
3. $\frac{4}{6} \bigcirc \frac{1}{6}$
4. $\frac{1}{2} \bigcirc \frac{2}{2}$

Solve. Show your mathematical thinking.
5. Three siblings each brought a chocolate bar to school. Spencer eats some of his at school and brings home $\frac{7}{8}$ of his bar. Becky eats some at school and brings home $\frac{5}{8}$ of her bar. Nellie shares some with her friends and brings home $\frac{3}{8}$ of her bar. Which sibling brought home the least amount of chocolate bar?

## Reflect

How does the relationship between the numerators and denominators in problem 5 help you compare the fractions?

Name $\qquad$
Write $<$, $>$, or = to compare each pair of fractions.

1. $\frac{2}{2} \bigcirc \frac{2}{3}$
2. $\frac{1}{6} \bigcirc \frac{1}{3}$
3. $\frac{4}{8} \bigcirc \frac{4}{4}$
4. $\frac{1}{3} \bigcirc \frac{1}{2}$

Solve. Show your mathematical thinking.
5. Three friends all baked pies for a picnic. After the picnic, Laura had $\frac{1}{3}$ of her pie left, Joey had $\frac{1}{2}$ of his pie left, and Jasper had $\frac{1}{8}$ of his pie left. Who had the greatest amount of leftover pie after the picnic?

## Reflect

How would drawing a model help you answer problem 5?
$\qquad$
Write the time shown on each clock.


Solve. Show your mathematical thinking.
5. Adam knows it takes him 6 minutes to complete each part of his bedtime routine. He always washes his face, brushes his teeth, and puts on his pajamas. His parents want him in bed at 8:30 pm. What time does Adam need to start getting ready for bed?

Explain the steps you took to solve problem 5.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Circle the best unit to measure each item.

1. The capacity of a bathtub ..... L ..... mL
m2. The amount of water in a large bucket3. The mass of a strawberry4. The amount of matter in a bowling ball

L
kg
4. The amount of matter in a bowling ballmLgkg
mL
g kg

2. The amount of water in a large bucket

$\square$ 9

Solve. Show your mathematical thinking.
5. A computer's mass is 6 kg , and a printer's mass is 2 kg . A shop owner wants to place computers on the left side of the shelf and printers on the right side. She needs to keep both sides balanced. How many printers and computers could she put on the shelf?

## Reflect

Jeremy says because there are more printers on the shelf than there are computers on the shelf, the printers weigh more. Is he right? Explain.
$\qquad$
Use the chart to complete the graph. Then, answer the questions.

1. | Frozen <br> Treat | Number <br> of Treats |
| :--- | :--- |
| grape | 30 |
| Orange | 30 |
| Cranberry | 36 |
| cherry | 48 |
| strawberry | 60 |
| kiwi | 36 |
| apple | 12 |

Favorite Frozen Fruit Treats at Armstrong Elementary


Number of Frozen Treats Eaten
$-\square=12$ frozen fruit treats
$-\boxed{ }=6$ frozen fruit treats

Solve. Show your mathematical thinking.
2. Use the picture graph to complete the missing information in the chart.

| Weather Last Month |  |
| :--- | :--- |
| Weather | Number <br> of Days |
| sunny |  |
| windy |  |
| rainy |  |
| cloudy |  |



## Reflect

Explain why there are more days described in the chart in problem 5 than there are days in a month.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Use a ruler to measure each object to the nearest quarter inch. Then, use the measurements to complete the line plot to the right.
1.

$\qquad$ in.
2.

$\qquad$ in.

$\qquad$ in.


Solve. Show your mathematical thinking.
4. Monica wants to convince her parents to buy her a new pack of pencils. The list below shows the length in inches of each pencil left in Monica's desk. Create a line plot showing the length of the pencils left in Monica's desk.
$6 \frac{1}{4}, 6 \frac{1}{4}, 5 \frac{3}{4}, 7,6 \frac{1}{4}, 4 \frac{1}{2}, 5 \frac{3}{4}$

## Reflect

How does the line plot help show why Monica should have new pencils? Explain.
$\qquad$
Count the squares to find the area of each figure inside the heavy outline.


Area $=$ $\qquad$ $\mathrm{cm}^{2}$
Area $=$ $\qquad$ $\mathrm{cm}^{2}$


Area $=$ $\qquad$ $\mathrm{cm}^{2}$

Solve. Show your mathematical thinking.
4. Quinn Elementary School must put new carpeting in all of the third-grade classrooms. There are 4 third-grade classrooms and each room is 10 yards by 12 yards. The school's budget will cover 400 square yards of carpet. Will the school be able to put new carpeting in all of the third-grade classrooms? Explain.

## Reflect

Explain a different way to solve problem 4.
$\qquad$
Count the squares to find the area of each figure inside the heavy outline.
1.

2.


Area $=\ldots \mathrm{cm}^{2}$
3.


Area $=$ $\qquad$ $\mathrm{cm}^{2}$

Solve. Show your mathematical thinking.
4. Rusty has to put down sod in his backyard. His backyard is a rectangle and measures 12 yards by 11 yards. Henry also has to put down sod in his backyard, which is a square that measures 11 yards on each side. The salesperson tells Rusty he will have to purchase 23 square yards of sod. He tells Henry he will have to purchase 22 square yards of sod. How did the salesperson get those measurements? Are they correct? Explain.

## Reflect

Rusty and Henry's backyards are similar. How can you use the area of one of their yards to quickly find the area of the other?

Name $\qquad$
Draw each number of square units. Then, find the area.
1.

2.

3.

Area $=\ldots$ sq. units
Area $=$ $\qquad$ sq. units $\quad$ Area $=$ $\qquad$ sq. units

Solve. Show your mathematical thinking.
4. Jackie wants to plant flowers in a rectangular garden that is 30 feet long by 7 feet wide. Jackie is planting sunflowers, lilies, and daisies. The sunflowers should take up at least 30 square feet. The lilies should take up no more than 35 square feet, and the daisies should take up at least 70 square feet. Jackie also wants to leave a foot-wide border around the edge of the garden. Draw a diagram to show one way Jackie could design her garden.

Explain another way to solve problem 4.

Name $\qquad$
Draw each number of square units. Then, find the area.

1. 4 units



Area $=$ $\qquad$ sq. units

Area $=$ $\qquad$ sq. units

Area = $\qquad$ sq. units

Solve. Show your mathematical thinking.
4. Ana is carpeting her bedroom. Her bedroom measures 8 feet by 7 feet. The carpeting Ana wants to purchase costs \$2 a square foot. Ana has budgeted \$150 for carpeting. Will she have enough to purchase the carpeting she wants? If so, how much money will she have left? If not, how much more money does she need?

## Reflect

Explain how you solved problem 4.
$\qquad$
Find the area of each item.

1. 7 in .

3 in.

$A=$ $\qquad$ in. ${ }^{2}$
2. 


$A=$ $\qquad$ $\mathrm{ft}{ }^{2}$
$A=$ $\qquad$ in. ${ }^{2}$

Solve. Show your mathematical thinking.
4. Graham wants to tile the kitchen floor. The kitchen floor measures 5 feet wide and 4 feet long. At the tile store, Graham has three choices of tile: high-grade tile, which costs $\$ 6$ per square foot; mid-grade tile, which costs $\$ 4$ per square foot; and low-grade tile, which costs $\$ 2$ per square foot. How many 1 -foot square tiles will Graham need to buy to tile his kitchen? How much will Graham pay for each type of tile? How much money does Graham save if he goes with the low-grade tile instead of the mid-grade tile?

## Reflect

What steps did you have to take to find the total cost to tile the kitchen floor?

Name $\qquad$
Find the area of each item.
1.

2.

$A=$ $\qquad$ $\mathrm{ft} .^{2}$
$A=$ $\qquad$ in. ${ }^{2}$

$A=$ $\qquad$ in. ${ }^{2}$

Solve. Show your mathematical thinking.
4. Blake wants to build a dog pen in his backyard. His backyard measures 20 meters by 10 meters. The area of the dog pen needs to be at least 20 square meters and Blake wants to keep at least 100 square meters of his backyard unfenced. Draw a diagram showing Blake's backyard with the largest dog pen possible. Be sure to include the measurements of the yard and dog pen in your diagram.

## Reflect

Explain how you chose the best shape for Blake's dog pen.
$\qquad$
Find the area.
1.

2.

3.

17 ft.
$\qquad$

Solve. Show your mathematical thinking.
4. Jared is repairing 2 glass door windows. The first window measures 12 inches by 8 inches. The second window measures 11 inches by 6 inches. His friend gives him 200 square inches of glass to repair the two windows. Jared finds two more windows that need repairing. What size windows could Jared repair using the leftover glass?

## Reflect

How would your answer change in problem 4 if the measurements of the first two windows were 24 inches by 4 inches, and 22 inches by 3 inches?
$\qquad$
Find the area.


Solve. Show your thinking.
4. Nathan has a closet shaped like the figure shown. He wants to put two different kinds of flooring in his closet. Each section of flooring should be a rectangle to make installation easy. He has chosen a tile that is $\$ 2$ a square foot and a carpet that is $\$ 1$ a square foot. Describe how Nathan can cover his closet floor in the cheapest way.


## Reflect

Would Nathan have saved money by covering his floor in only one material? Explain.
$\qquad$
Label any missing sides. Then, find the perimeter of each figure.
1.

2.

3.

$P=$ $\qquad$
$P=$ $\qquad$
$P=$ $\qquad$

Solve. Show your mathematical thinking.
4. Renee has a playpen for her niece to play in. It is rectangular in shape and Renee tied a ribbon all the way around the outside of the playpen for her nieces' birthday. Renee used 14 feet of ribbon. What is the area of the playpen?

## Reflect

Draw a diagram to show how you solved problem 4.

Name $\qquad$
Identify each figure as a triangle, quadrilateral, or pentagon.

2.

3.


Solve. Show your mathematical thinking.
4.


Create 2 more shape number sentences using two of the shapes below.

rectangle

trapezoid

rhombus

circle

hexagon

octagon

## Reflect

Explain the patterns you see in problem 4.

Name $\qquad$
Write the name of the polygon that each object represents.
1.

2.

3.


Solve. Show your mathematical thinking.
4.


Reflect
Explain how knowing the attributes of different shapes can help you answer problem 4.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Use words from the word bank to answer the questions.

| circlehexagon <br> rhombusoctagon pentagon rectangle <br> square <br> trapezoid <br> triangle |
| :---: | :---: | :---: |

1. Name the quadrilaterals. $\qquad$
$\qquad$
$\qquad$
2. What is the only quadrilateral with four equal sides? $\qquad$
3. What shape has no sides? $\qquad$

Solve. Show your mathematical thinking.
4. Divide the following shape into smaller polygons. Draw and label each smaller shape.


## Reflect

Explain another way to divide the shape in problem 4.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Identify each figure.
1.

2.

3.

4.


Solve. Show your mathematical thinking.
5. Draw a quadrilateral that is not a rhombus, rectangle, or square.

## Reflect

Explain what the shape in problem 4 and the one you drew in problem 5 have in common.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Name $\qquad$
Label how each shape is divided.
1.

2.

3.

$\qquad$
$\qquad$
$\qquad$

Solve. Show your mathematical thinking.
4. Dylan has a rectangular candy bar. He has three friends and wants to share his candy bar with all of them. Draw a picture of the candy bar and show one way Dylan can divide it equally with his friends. Label each part.

## Reflect

Explain how you decided to divide the candy bar in problem 4.

Name $\qquad$
Divide each shape.
1.

eighths
2.

halves
3.

thirds

Solve. Show your mathematical thinking.
4. Roxanne is planting a vegetable garden in a square-shaped bed. She wants to plant tomatoes, lettuce, carrots, and onions. She must give each vegetable an equal amount of space in the garden. Draw a diagram that shows how Roxanne's garden can be divided into a way she that will give all the vegetables an equal amount of space.

Explain two more ways Roxanne can divide her vegetable garden.

## Answer Key

Answers to some higher-level problems will vary but may include the answers provided. For all Reflect responses, accept all reasonable answers as long as students have proper evidence and support.

## Page 5

1. 6, 3 groups of 2; 2. 10, 2 groups of 5; 3. 8, 4 groups of 2; $4.25,5$ groups of $5 ; 5.36$ projects

## Page 6

1. 16; 2. 9; 3. 25; 4. 14; 5. 145 starfish arms

## Page 7

1. 4; 2. 42; 3. 20; 4. 18; 5. 48;
2. 24 letters, 120 letters

## Page 8

1. 7; 2. 6; 3. 4; 4. 3; 5.3 stars

## Page 9

1. 5; 2. 8; 3. 9; 4. 5; 5. 7; 84 players, 126 players

## Page 10

1. 9; 2. 5; 3. 4; 4. 4; 5. 3; 6. 6; 7. 7 pins, 210 pins

## Page 11

1. 54 marbles; 2 . 81 boxes of cereal; 3. 30 miles; 4 . 14 pages, about 60 pages, about 730 pages

## Page 12

1. 6 goldfish; 2. 4 bracelets;
2. 9 necklaces; 4 . 3 more crayons

## Page 13

1. 32 cards; 2. 45 jumps;
2. 42 pictures; 4 . No, he will have 3 cards left over. He will need 69 cards to fill another notebook.

Page 14

1. 9; 2. 14; 3. 10; 4. 3; 5.40 buttons

## Page 15

1. 6; 2. 6; 3. 9; 4. 42; 5. The greatest number of cars is 24 and the fewest number of cars is 6 .

## Page 16

1. 9; 2. 30; 3. 5; 4. 7; 5. Answers may vary but may include 6 birds in 4 habitats, 10 birds in 3 habitats, and 9 birds in 2 habitats.

## Page 17

1. 8; 2. 5; 3. 7; 4. 4; 5. Answers may vary but could include 6 rows of 8 .

## Page 18

1. $12,2 \times 6=12$, then $12 \times 1=12 ; 6 \times$ $1=6$, then $6 \times 2=12 ; 2.84,7 \times 4=$ 28 , then $28 \times 3=84 ; 4 \times 3=12$, then $12 \times 7=84$; 3. $48,8 \times 3=24$, then 24 $\times 2=48 ; 3 \times 2=6$, then $6 \times 8=48$; 4. 200 pieces, Both equations can be used to solve the problem.

## Page 19

1-4. Check students' work; 1.56; 2. 51; 3. 110; 4. 80; 5. 78; Check students' reasoning.

## Page 20

1. $6 \times 5=30 ; 2.5 \times 8=40$;
2. $7 \times 9=63 ; 4.3 \times 8=24 ; 5$. Both are correct because both equations can be used to solve the problem.

## Page 21

1. 16; 2. 9; 3. 8; 4. 6; 5. 56; 6.7 friends, $9 \times \square=63$ or $\square \times 9=63$

## Page 22

1. $35 ; 7 \times 5=35 ; 2.6 ; 6 \times 4=24$;
2. $4 ; 7 \times 4=28 ; 4.36 ; 9 \times 4=36$;
3. Answers will vary but may include
$7 \times \square=56$ and $56 \div 7=$ $\qquad$
Page 23
4. 30; 2. 49; 3. 27; 4. 32; 5. 45;
5. 103 tomato seedlings

## Page 24

1. 3; 2. 4; 3. 3; 4. 2; 5. 8; 6. 4; 7. Answers may vary but may include 6 pots with 1 marigold, 3 pansies and 2 geraniums each.

## Page 25

1. Yes, he will get $\$ 1.53$ back. 2.21 games; 3. no, 6 quarters is only $\$ 1.50$

## Page 26

1. 10, 12, 14; 2. 16, 18, 20; 3. 12, 18, 21 ;
2. $94,100,106 ; 5.12$ weeks

## Page 27

1. 70; 2. 50; 3. 900; 4. 700; 5. Both are correct. It depends on when the numbers were rounded-before or after adding.

## Page 28

1. 60; 2. 10; 3. 300; 4. 400; 5. Answers will vary but may include Malia's class collected 471 soup can labels, and Sam's class collected 283 soup can labels.

## Page 29

1. 49; 2. 20; 3. 969; 4. 469; 5. 610; 6. Answers may vary but may include 400 cards from his parents, 300 from his friends, and buying 300 with his own money.

## Page 30

1. $80 ; 2.240 ; 3.40 ; 4.810 ; 5.120$;
2. 420 rings

## Page 31

1. 70; 2. 420; 3. 400; 4. 200; 5. 50;
2. 180 of each kind of picture, 720 total pictures from the art club

## Page 32

1. $\frac{1}{6}$; 2. $\frac{3}{8}$; 3. $\frac{1}{2}$; 4. $\frac{5}{8}$; 5. $\frac{5}{7}, \frac{10}{14}$

Page 33

1. $\frac{1}{4} ; 2 . \frac{1}{3}$ or $\frac{2}{6} ; 3 . \frac{3}{4} ; 4 . \frac{6}{12}, \frac{2}{4}$, or $\frac{1}{2}$;
2. $\frac{5}{12}, \frac{10}{24}, \frac{15}{36}$

## Page 34


2. The top number line is correct. The bottom number line is incorrect because it is not divided into equal parts.
Page 35


The number line is wrong because $\frac{4}{4}$ and 1 are equivalent. They should not be labeled in different places.

## Answer Key

## Page 36



Page 37

1. $\frac{1}{3}=\frac{2}{6} ; 2 \cdot \frac{1}{4}=\frac{2}{8} ; 3$. yes; $\frac{3}{4}$ and $\frac{6}{8}$
or $\frac{2}{4}$ and $\frac{4}{8}$

## Page 38

1. $\frac{4}{8} ; 2 . \frac{8}{12} ; 3 . \frac{2}{6} ; 4.6$ slices

## Page 39

1. 2; 2. 2; 3. 4; 4. $\frac{5}{7}$

## Page 40


2. $\frac{1}{4}$ and $\frac{2}{8}, \frac{2}{4}$ and $\frac{4}{8}, \frac{3}{4}$ and $\frac{6}{8}$; 3. no, because $\frac{5}{8}$ is greater than $\frac{1}{2}$

## Page 41

1.5; 2. 9; 3. 8; 4. $\frac{24}{4} ; \frac{36}{4}$

## Page 42

1. <; 2. <; 3. >; 4. <; 5. Nellie

## Page 43

1. >; 2. <; 3. <; 4. <; 5. Joey

## Page 44

1. 4:52; 2. 9:18; 3. 6:22; 4. 11:17;
2. 8:12 pm

## Page 45

1. L; 2. L; 3. g; 4. kg; 5. Answers will vary.

## Page 46

1. 

| grape | $\square$ | $\square$ | $-\square$ |
| :--- | :--- | :--- | :--- |
| orange | $\square$ | $-\square$ | $-\square$ |
| cranberry | $-\square$ | $\square$ | $-\square$ |
| cherry | $\square$ | $\square$ | $-\square$ |
| strawberry | $\square$ | $\square$ | $\square$ |
| kiwi | $\square$ | $\square$ | $\square$ |
| apple | $\square$ | $\square$ | $\square$ |

2. 

| Weather Last Month |  |
| :---: | :---: |
| Weather | Number of Days |
| sunny | 14 |
| windy | 23 |
| rainy | 9 |
| cloudy | 17 |

Page 47

1. 1 ; 2. $\frac{1}{2}$; 3. $1 \frac{1}{4}$; Check students' line plots.
2. 



Length of Pencils in Monica's Desk
Page 48

1. 8; 2. 16; 3. 7; 4. No, they will need 480 yards of carpet.

## Page 49

1. 10; 2. 11; 3. 22; 4. The salesperson is incorrect because he added the length and width of both Rusty and Henry's yards and did not multiply to find the areas.

## Page 50

1. 28; 2. 9; 3. 40; 4. Dlagrams will vary but may include:


## Page 51

1. 16; 2. 12; 3. 15; 4. Yes, she will have \$38 leftover.

## Page 52

1. 21 in. $^{2} ; 2.24$ in. $^{2} ; 3.50$ ft. $^{2} ; 4.20$ tiles, $\$ 120$ for high-grade tiles, $\$ 80$ for mid-grade tiles, and $\$ 40$ for low-grade tiles; Graham will save \$40 between mid-grade and low-grade tiles

## Page 53

1. $18 \mathrm{ft}^{2}$; 2. 16 in. $^{2} ; 3.80$ in. $^{2}$;
2. Answers will vary. Check students' diagrams.

## Page 54

1. $91 \mathrm{ft}^{2}$; 2. $100 \mathrm{~m}^{2} ; 3.136 \mathrm{ft}^{2}$;
2. Answers will vary but may include that Jared could repair a 6-inch by 4 -inch window as well as a 7 -inch by 2-inch window.

## Page 55

1. $51 \mathrm{ft}^{2}$; $2.18 \mathrm{in}.{ }^{2} ; 3.41$ in. $^{2}$; 4 . The smallest rectangular area should be tiled, and the largest rectangular area should be carpeted. His total cost will be \$33.

## Page 56

1. 24 centimeters; 2.9 feet;
2. 21 yards; 4.Answers will vary but may include 5 ft . by $2 . \mathrm{ft}$.

## Page 57

1. quadrilateral; 2. triangle;
2. pentagon; 4. octagon; Answers will vary.

Page 58

1. hexagon; 2. square; 3. pentagon; 4. even

## Page 59

1. square, rectangle, trapezoid, rhombus; 2. square; 3. circle; 4. Answers will vary but may look similar to $\square$. Check students' labeling.

## Page 60

1. rhombus; 2. rectangle; 3.trapezoid; 4. quadrilateral; 4. Answers will vary but may include

## $\square$.

## Page 61

1. fourths; 2. fourths; 3. sixths;
2. Answers will vary but may include

| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| :---: | :---: | :---: | :---: |

## Page 62

1-3. Check students' drawings.
4. Answers will vary but may include


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