

COMMON CORE COLLABORATIVE CARDS

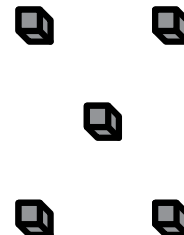
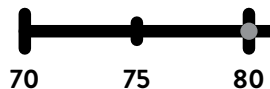
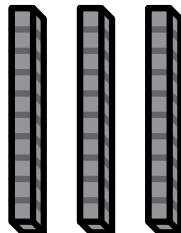
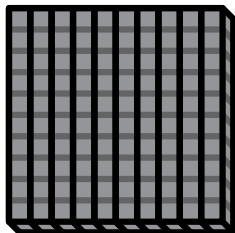


Grades 3–5

Additional resources available at

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TEACHER GUIDE



BASE TEN

by Kit Norris

OVERVIEW

Common Core Collaborative Cards support the teaching and learning of mathematics in several ways. They can be used:

- As an activator for the day's lesson
- To review previous content
- As a learning center activity
- For students' independent practice

Common Core Collaborative Cards provide convenient and motivating ways to place students in collaborative teams for an upcoming unit or problem-solving lesson.

The Common Core Collaborative Cards series consists of three decks of cards per box, each focusing on the same domain in the Common Core State Standards (CCSS). Each deck provides problems representing the standards articulated in the CCSS for a particular grade level.

Teachers using these decks have commented that they have been able to observe what their students understand as well as identify their misconceptions. Teachers have also noted that their students begin to rely on each other more instead of seeking out the teacher to answer their questions.

The cards are designed to place students in groups of four. Students are each given a card and asked to solve the problem on it. They then look for three other students who have the same solution. Once they have located their team, the students must be ready to explain why each team member's card belongs in the group. Here is one group of cards from Grade 4: Base Ten:

6 hundreds + 15 tens + 2 ones

What is this number?
Be ready to share your thinking with your group.

7 hundreds + 3 tens + 22 ones

What is this number?
Be ready to share your thinking with your group.

Hundreds Tens Ones

The tens digit is three more than the ones (units) digit.
The hundreds digit is two more than the tens digit.
The ones (units) digit is 2.
What is the number?

4 hundreds + 25 tens + 102 ones

What is this number?
Be ready to share your thinking with your group.

All four cards in this set have the same answer, 752, so students who receive one of these cards form a group.

GROUP MEMBER ROLES

The cards offer a second feature; the reverse side of each card indicates the role the student holding the card is to perform in the group. After the students are presented with the task for that day's lesson, each member of the group takes on the role designated. These roles are as follows:

- Discussion Director
- Resource Manager
- Recorder
- Team Captain

Teachers can easily identify the roles that students are expected to perform since students place their cards on their desks with the side indicating the role facing up. The roles are explained as follows:

If you are the **Discussion Director**, your job is to . . .

- Make sure that everyone has read the problem and understands what the question is asking. You can ask, "What do we know?" "What do we want to find out?" and "Can we make a prediction?"
- Invite everyone in the group to participate. You can use statements such as, "What is your idea?" and "What are you thinking?"

If you are the **Resource Manager**, your job is to . . .

- Ask the teacher a question if all of the members of the team have the same question.
- Get any supplies needed by the group.
- Keep track of time.

The Resource Manager's role goes beyond taking care of the supplies. The Resource Manager is the only member of the group who may ask the teacher a question. Before asking a question, every member of the group must have the same question, and the teacher can then direct the answer to the whole group. This helps the members of the group become more interdependent, since group members can answer many of their questions among themselves rather than relying on the teacher.

If you are the **Recorder**, your job is to . . .

- Keep track of the thinking of the group. Be ready to answer how the group approached the problem. What strategy did the group use to solve the problem?
- Record the work of the group. Be organized and clear.
- Ask, "Is there anything else we need to include?"

If you are the **Team Captain**, your job is to . . .

- Make sure that everyone in your group can explain to the class the solution and the strategies used to solve the problem.
- Ask each member of your group, “How would you explain what we did to get this answer?” “What questions do you have?”
- Check the group’s solution by asking, “Does our answer make sense?”
- Take on any role if one member of your group is absent.

MANAGING THE CARDS IN YOUR CLASSROOM

Like any other classroom materials, you’ll need to manage your Common Core Collaborative Cards. It is essential to group the cards by shared answer after each use. Since the cards are designed to place students in groups of four and since class size will vary, this end-of-activity organizational task will make it easier to distribute the cards the next time you use them. Here are some suggestions for organizing the cards after each use:

- As you collect the cards from each student group, place a rubber band around each group of four cards with the same answer before storing.
- After the activity, collect the cards from the class in any order and designate a student to organize the cards into groups of four according to the answer.

WHAT THE RESEARCH SAYS

Research on the effectiveness of collaborative learning abounds. For more information on the research that informs this product, as well as a complete list of bibliographic references and suggestions for further reading, please visit didax.com/cccc.

COMMON CORE STATE STANDARDS – MATHEMATICAL PRACTICES

The Common Core State Standards define what mathematically proficient students know and are able to demonstrate. Combining the process standards from NCTM’s Principles and Standards for School Mathematics with the definition of mathematical proficiency from Kilpatrick, Swafford, and Findell’s *Adding It Up: Helping Children Learn Mathematics*, the Common Core Standards present the Mathematical Practices.

These practices focus on the specific actions taken by students who are mathematically proficient.

The eight mathematical practices are:

1. Make sense of problems and persevere in solving them.
 2. Reason abstractly and quantitatively.
 3. Construct viable arguments and critique the reasoning of others.
 4. Model with mathematics.
 5. Use appropriate tools strategically.
 6. Attend to precision.
 7. Look for and make use of structure.
 8. Look for and express regularity in repeated reasoning.
- (*Common Core State Standards for Mathematics*, 2010, pp. 6–8)

The authors of the Common Core carefully chose to begin the mathematical practices with problem solving. “Problem solving is not only a goal of learning mathematics but also a major means of doing so” (NCTM, 2000, p. 52). Students who are engaged in solving meaningful tasks are in the process of building their understanding. They are making connections, constructing arguments, analyzing approaches, looking for patterns, and reflecting on their thinking. These students are learning mathematics, and they have opportunities to exhibit the eight mathematical practices.

The Collaborative Cards provide students with opportunities to develop proficiency in the eight mathematical practices. Students solve problems, discuss strategies, and reason mathematically (Mathematical Practices 1–3). They work with patterns and apply them in various contexts (Mathematical Practices 7–8). They determine whether to calculate problems mentally or use paper and pencil (Mathematical Practice 5). By attending to the use of appropriate vocabulary and the accuracy of their responses, they are attending to precision (Mathematical Practice 6). They use equations to model problem situations (Mathematical Practice 4).

The Collaborative Cards provide teachers with insights into what individual students truly understand. As they apply their knowledge in new contexts, students use what they know. As one fifth-grade teacher in Grafton, Massachusetts stated, “I gained insights into my students’ misconceptions. These cards are an easy way to learn about students’ strengths.”

NUMBER AND OPERATIONS IN BASE TEN (NBT): GRADE 3

The Grade 3 deck focuses on the NBT standards laid out on page 24 of the Common Core State Standards for Mathematics.

Each group of four cards presents a different representation of the quantity. Students solve the question and then look for their partners, who will have the same solution. When students determine their group, they must collaborate to justify why they are indeed members of the same group. This deck of cards presents opportunities for students to review skills, use place value in varying forms, and challenge their thinking in a supportive environment. Teachers may have students discuss their cards, or they may decide to move directly into the lesson for the day.

In some cases, students may not have studied a particular topic. In the process of finding their group, many students learn from each other. This opportunity initiates thinking upon which students can build in the future.

As mentioned earlier in the guide, students build their understanding through problem solving. As students apply the skills they truly understand to solve meaningful tasks, teachers gain insights into what students have

mastered and can plan lessons for individuals and small groups based those insights.

Here is one group of four cards from the Grade 3 Base Ten deck. These four problems address three standards from the Grade 2 domain (2.NBT.1, 3, and 6) and one standard from the Grade 3 domain (3.NBT.2).

$162 + 158 =$

Find the value.


$150 + 20 + 150 =$

Find the value.

1 hundred + 22 tens

What is this number?

Hundreds Tens Ones



This number has a zero in the ones place.
The hundreds digit is one more than the tens digit.
The sum of all the digits is 5.
What is this number?

This group of cards provides opportunities for students to look at place value and use strategies to mentally calculate the sum (320). After students have identified their team, allow time for each team to discuss how they solved the problem and share their strategies. Students may also discuss what connections they see among the four cards. Ask: What are the patterns demonstrated in this set of four cards?

The Common Core Standards present the necessary skills developmentally. Students are expected to know the standards from a previous grade level; consequently, these cards offer opportunities to review previous expectations and then proceed to problems within the domain at the current grade level. For example, the work in Grade 3 focusing on using place value to add and subtract values enables students to understand the traditional algorithms that are expected in Grade 4.

Answers for the Grade 3 Base Ten deck are provided on pages 10–12 of this guide.

NUMBER AND OPERATIONS IN BASE TEN (NBT): GRADE 4


The Grade 4 deck focuses on the Grade 4 NBT standards laid out on pages 29–30 of the Common Core State Standards for Mathematics.

Being able to mentally multiply and divide by 10, 100, and 1000 enables students to work flexibly with numbers and develop estimation skills. Students use these skills to make sense of the traditional algorithms they are expected to master in Grade 5 (multiplication) and Grade 6 (division.)

Students in Grade 4 are also expected to use and understand the traditional algorithms for multi-digit addition and subtraction. It is critically important that students have experience using strategies that are based on understanding place value, properties of operations, and the relationship between addition and subtraction.


Here is one group of four cards from the Grade 4 Base Ten deck:

26 × 8 is the same as (20 × 8) + (6 × 8).



If Sara is correct, your partners have the answer to this problem.
If this is not true, your partners have 1,000 as the answer.

Hundreds Tens Ones




The units digit is 4 times greater than the hundreds digit.
The units digit is 8. A zero is in the tens place.
What is the number?



William has \$208.48 in his bank account.
If he rounds his money to the nearest whole dollar,
about how much money does he have?

I can divide 2,080 by 10 in my head
2,080 ÷ 10 =



Find the answer and then discuss with partners
how you might calculate this problem in your head.

This group of four cards provides an opportunity for students to consider the distributive property. Sara's statement, 26×8 is the same as $(20 \times 8) + (6 \times 8)$, can stimulate a discussion about why this is true. Students might create other examples and consider ways that this property can be helpful when multiplying quantities.

The problems on the different cards vary in complexity. If a group of students has finished discussing, consider asking the group to exchange their cards with another group that has finished. Each student solves the new card,

discusses the questions raised within the group, and then shares the group's understandings with the original owners of those cards.

Answers for the Grade 4 Base Ten deck are provided on pages 13–15 of this guide.


NUMBER AND OPERATIONS IN BASE TEN (NBT): GRADE 5

The Grade 5 deck focuses on the Grade 5 NBT standards laid out on page 35 of the Common Core State Standards for Mathematics.

Here is one of the groups of four cards from the Grade 5 Base Ten deck:

How do I solve $315.3 \div 3$?

I just break the number into parts:
 $300 \div 3 + 15 \div 3 + 0.3 \div 3$.



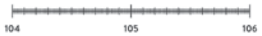
Find the quotient.



Ms. O'Neill went shopping for holiday gifts.
She purchased a sweater for \$54.75 and a book for \$12.35.
Ms. O'Neill then spent \$8 on lunch.
How much did she spend during this shopping trip?

$105,100 \div 10^3 =$

Find the answer.



Locate 105.09 on this number line.
Round this number to the nearest tenth.

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These cards offer students the opportunity to look at using place value in division. They see the same answer, 105.1, in different contexts. Providing opportunities for the students to discuss such problems enables them to enrich their understanding.

Answers for the Grade 5 Base Ten deck are provided on pages 16–18 of this guide.

For the following important resources:

- A complete bibliography and links to research that informed this product
- A complete correlation to the Common Core State Standards for each grade-level deck
- Meaningful tasks to be used at each grade level (once students have used the Common Core Collaborative Cards to form their groups)

ADDITIONAL MEANINGFUL TASKS

One of the best sources of meaningful tasks related to the Common Core is the book *NCSM: Great Tasks for Mathematics (K–5)* by Connie Schrock, Kit Norris, David K. Pugalee, Richard Seitz, and Fred Hollingshead. (National Council of Supervisors of Mathematics, 2013, ISBN: 978-0-9890765-0-0.)

GRADE 3 GROUPINGS

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

ANSWER
320

$$162 + 158 = 150 + 20 + 15$$

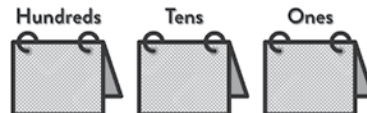
Find the value.

$$150 + 20 + 15$$

Find the value.

1 hundred + 22 ten

What is this number?



This number has a zero in the ones place.
The hundreds digit is one more than the tens digit.
The sum of all the digits is 5.
What is this number?

ANSWER
806

5 hundreds + 20 tens + 106 ones

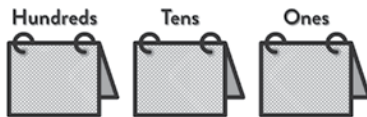
What is this number?



Lavinia has 900 beads.
She gave her friend Becky 94 beads.
How many beads does Lavinia have left?

7 hundreds + 106 ones

What is this number?



This number has a zero in the tens place.
The ones digit is two less than the hundreds digit.
The sum of all the digits is 14.
What is this number?

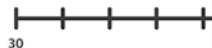
ANSWER
60



Johnny Appleseed collected 36 apples.
Patty Pearson found 24 pears.
How many pieces of fruit did they have together?

$$6 \times 10 \text{ is the same as } 10 + 10 + 10 + 10 + 10 + 10$$

What number is this?



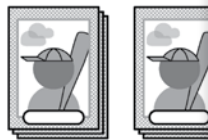
What value is halfway between 50 and 70 on this number line?



What number is this?

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

GRADE 3 GROUPINGS



Peter collects baseball cards. He currently has 167 cards. He gave his friend Alexia some of his cards. Peter now has 217 baseball cards. How many cards did he give to Alexia?



Henry's mother went to the bank and asked to take out an account. The bank gave her 26 ten-dollar bills and 16 one-dollar bills. How much money did Henry's mother take from the bank?

$$1 \text{ hundred} + 16 \text{ tens} + 16 \text{ ones}$$

Can you think of a different way to write this number?



ANSWER
265

My mother has 176 bite-size candies. My Dad gave her 89 more candies. How many does she have now?

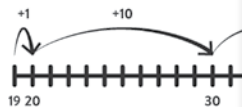


Raul has 35 baseball cards. He gave 19 to his friend Juanita. How many baseball cards does he have left?

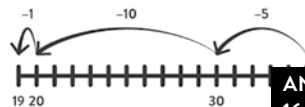


I can find 35 take away 19 in my head. I know 35 - 20 is 15. Now I can put back the extra that I took away.

What is Juanita's answer? Explain to your group how Juanita got the answer.



Peter thinks, "I can subtract 19 from 35 by first subtracting 20. It's easy when I use a number line." What answer does he get? (Be ready to share his strategy with your group.)



ANSWER
16

Forrest thinks, "I can subtract 19 from 35 by first subtracting 10, then 5. It's easy when I use a number line." What answer does Forrest get? (Be ready to share his strategy with your group.)

$$5 \times 4 \times 3 \times 4 \times 2$$

Find the product. Which of your team members has the easiest problem to solve? Explain your thinking.

$$10 \times 8 \times 9 =$$

Find the product. Which of your team members has the easiest problem to solve? Explain your thinking.

$$40 \times 2 \times 9 =$$

Find the product. Which of your team members has the easiest problem to solve? Explain your thinking.

$$20 \times 4 \times 3 \times 3 =$$

Find the product. Which of your team members has the easiest problem to solve? Explain your thinking.

ANSWER
720

GRADE 3 GROUPINGS

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

$$8 \times 15 \times 2 =$$

ANSWER
240

Find the product.
Which of your team members has the easiest problem to solve?
Explain your thinking.

$$3 \times 10 \times 4 \times 2$$

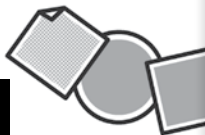
Find the product.
Which of your team members has the easiest problem to solve?
Explain your thinking.

$$4 \times 5 \times 3 \times 4$$

Find the product.
Which of your team members has the easiest problem to solve?
Explain your thinking.

$$3 \times 20 \times 4 =$$

Find the product.
Which of your team members has the easiest problem to solve?
Explain your thinking.



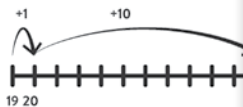
ANSWER
13

Sherry's mother gave her some stickers. She now has 19 stickers. If Sherry had 19 stickers in the beginning, how many stickers did Sherry's mother give to her?

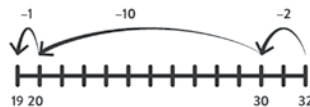


I can take 19 away from 32. 19 is close to 20, and 32 minus 20 is 12. I need to add back the extra 1 that I took away.

What is Goldie's answer?
Explain to your group how Goldie got the answer.



Cal thinks he can find the answer to $32 - 19$ using a number line. What answer does he get?
Explain Cal's strategy to your team.



Jen thinks she can find the answer to $32 - 19$ using the number line. What answer does she get?
Explain Jen's strategy to your team.

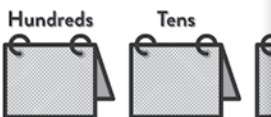


ANSWER
284

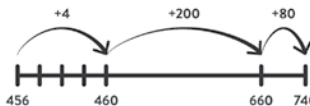
Desean has 456 baseball cards of American League players. The rest are of National League players. Desean has 740 cards altogether. How many cards represent National League players?

$$4 \text{ hundreds} + 5 \text{ tens} +$$

What do you need to add to this number to make 740?





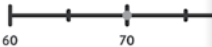


This number has three digits. The ones (units) digit is 6. The tens digit is 4 more than the ones digit. The hundreds digit is 2. What is this number?



Chris knows that he can use a number line to add numbers together. Chris begins at 456. How much does he add on this number line to make 740?

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccs.

GRADE 4 GROUPINGS

<p>6 hundreds + 15 tens +</p>	<p>7 hundreds + 3 tens + 2</p>	<p>Hundreds Tens</p> 	<p>4 hundreds + 25 tens + 102 ones</p>
<p>What is this number? Be ready to share your thinking with your group.</p>	<p>What is this number? Be ready to share your thinking with your group.</p>	<p>The tens digit is three more than the ones (units) digit. The hundreds digit is two more than the tens digit. The ones (units) digit is 2. What is the number?</p>	<p>What is this number? Be ready to share your thinking with your group.</p>
<p>?</p>	<p>Hundreds Tens</p> 	<p>2 hundreds + 18 tens + 1</p>	<p>300 486 468 399 406 408 5</p>
<p>When rounded to the nearest hundred, this number is 100. Your partners' cards show the original number.</p>	<p>The tens digit is twice as big as the hundreds (tens) digit. The ones (units) digit is two less than the tens digit. The ones (units) digit is 6.</p>	<p>What is this number?</p>	<p>The largest value on this card is the one you are looking for.</p>
	<p>603 80.6 90.9</p>	<p>I can divide 7,000 by 10 in 700 jumps. $7,000 \div 10 =$</p> 	
<p>Name the number that is 10 times bigger than the number shown on this number line.</p>	<p>Which number is the biggest? Round the biggest number to the nearest hundred. Your partners have this rounded number.</p>	<p>Find the answer and then discuss with your group how you might solve this problem in your group.</p>	<p>Bernadette used a number line to solve $453 + 247 =$. Her first jump went 7 units. Her second jump went 40 units. She reached the solution on the third jump. What is the solution?</p>

ANSWER
752

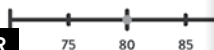
ANSWER
486

ANSWER
700

GRADE 4 GROUPINGS

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

ANSWER
800



Name the number that is 10 times bigger than the number shown on this number line.

$$(300 + 80 + 6) + (400 + 6)$$

Find the value.

I can divide 8,000 by 10 in my head.
 $8,000 \div 10 =$

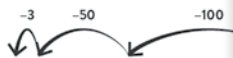


Find the answer and then discuss with your partners how you might calculate this problem in your head.

901 936
5,012
823.1 900

Find the smallest value on this card. Round the smallest value to the nearest hundred. Your partners have this rounded number.

ANSWER
847



Clarence says that he can subtract numbers using an anchor chart. Clarence began at 1,000 and made jumps of 300 and 50. How much did he take away from 1,000, and what is his answer? Your group has Clarence's answer to his subtraction problem.

I'm thinking of a number: 6 hundreds + 14 tens + 7 ones.

I'm thinking of a number: 4 hundreds + 24 tens + 207 ones.



Are these boys thinking of the same number? If so, what is this number?



Maurice had \$1,000 in the bank. He took out \$153. How much did he have left in the bank?

I think this involves the order of operations.

$$8 \times 100 + 4 \times 10 + 7 = ?$$

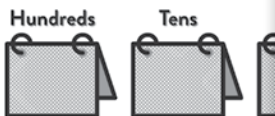


Help the girls solve this problem.

ANSWER
208

26×8 is the same as $(20 \times 8) + (6 \times 8)$.

If Sara is correct, your partners have the answer. If this is not true, your partners have 1,000 as the answer.



The units digit is 4 times greater than the hundreds digit. The units digit is 8. A zero is in the tens place. What is the number?



William has \$208.48 in his bank account. If he rounds his money to the nearest whole dollar, how much money does he have?

I can divide 2,080 by 10 in my head.
 $2,080 \div 10 =$



Find the answer and then discuss with partners how you might calculate this problem in your head.

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccs.

GRADE 4 GROUPINGS

$$3 \times 2 = 6$$
$$3 \times 20 = 60$$

So...

$$3 \times 200 = ?$$

Be ready to explain your thinking to your

$$6 \times 1 = 6$$
$$6 \times 10 = 60$$

So...

$$6 \times 100 = ?$$

Be ready to explain your thinking to your

$$1 \times 6 = 6$$
$$10 \times 6 = 60$$

So...

$$10 \times 60 = ?$$

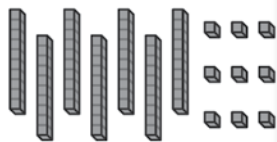
Be ready to explain your thinking to your

$$3 \times 5 \times 2 \times 2 \times 5 \times 2 =$$

ANSWER
600

Explain how your problem relates to the problems your partners have.

Yes, you all have the same answer. Why?

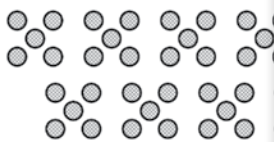


If 4,500 divided by 1 is
4,500 divided by 10 is
What is 4,500 divided by

Suppose you didn't have any hundreds and you built 453 using only tens and

How many tens must you use to make this

Be ready to explain your thinking



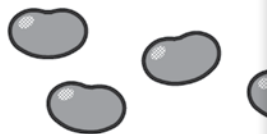
How many balls are represented here

Be ready to explain how you found your answer.



ANSWER
45

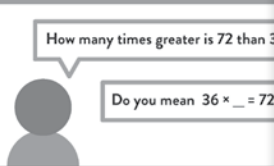
What is three times 3 groups of 5?



Eliza wants to share her jelly beans equally with 3 friends. She put her 86 jelly beans in 4 piles. How many jelly beans are left over

$$80 \div 40 =$$
$$800 \div 400 =$$
$$8,000 \div 4,000 =$$

Be ready to explain how you got your answer. What pattern do you see?



Help the girls by finding the answer to their questions.



ANSWER
2

Morgan has 126 stars that she wants to arrange on a rectangular-shaped cloth. She wants to make exactly 4 rows. How many stars will be left over?

GRADE 5 GROUPINGS

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

ANSWER
10

To change 78 to 780 on my calculator I would multiply by...



Finish Pedro's sentence.

I can change 780 to 78 by dividing by...



Finish Sarah's sentence.

I can change 0.3 to just 3 by multiplying by...



Complete Grace's sentence.

What do I divide 500 by to get 50?



Answer Mario's question.

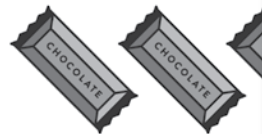
ANSWER
300



If you have 10 times this amount, how much would you have?



Mario's Pizza Plaza is planning for a busy lunch. They have baked 30 pizzas and cut each pizza into 10 slices.
How many slices of pizza have been made?



Alfinio has 30 candy bars. He wants to break each candy bar into 10 bite-sized pieces.
Each piece will be 1/10 of the whole bar.
How many pieces will he have altogether?



There are 10 children in Henry's family, including Henry. He and his brothers and sisters have saved \$3,000 over the last 5 years.
If they share their money equally, how much is each person's share?

ANSWER
342.8

Three hundred forty-two and eight tenths

What is this number?

2 hundreds + 14 tens + 2 ones

What is this number?

$3 \times 10^2 + 4 \times 10 + 2 \times 1 + 8 \times \frac{1}{10}$

What number is this?

Divide 34,280 by 100

What is the quotient?

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

GRADE 5 GROUPINGS

Four hundred eighty-six and twenty-three

3 hundreds + 18 tens + 6 ones + 2 tenths +

$$4 \times 10^2 + 8 \times 10 + 6 + 2 \times \frac{1}{10}$$

Divide 48,623 by 100

ANSWER
486.23

What is this number?

What number is this?

What number do you get?

What is the quotient?

Divide 800,000 by 100

8×10^2 multiplied by 100

$$200 \times 4 \times 10 =$$

$$10 \times 8,000 \div 10 =$$

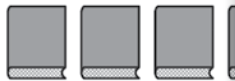
ANSWER
8,000

What number do you get?

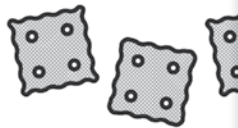
What number is this?

Solve this equation.

Solve this equation.



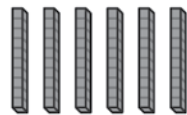
One bookcase in the library has 14 shelves.
Each shelf holds 16 books.
How many books are in this bookcase?



There are 2,240 crackers in the giant-sized
The teacher wants to divide these crackers among
How many crackers will each student have?

$$(2 \times 10^3 + 2 \times 10^2 + 4 \times 10)$$

Solve this equation.



Joey built the number 2,240 using base-ten blocks.
He did not use any thousand-blocks or hundred-flats.
How many ten-rods did he use?

ANSWER
224

GRADE 5 GROUPINGS

Correlation to the Common Core State Standards for each group of 4 cards can be found at didax.com/cccc.

ANSWER
0.8



$$8,000 \div 10^4 =$$

$$8 \div 10 =$$



Which value is the largest?
0.2 0.8 0.70 0.39
Use the number line to help you.

Solve this equation.

Solve this equation.
(Write as a decimal.)

Your mother has \$8, and she said that you can have $\frac{1}{10}$ of this money.
How much money is your mother going to give you?

ANSWER
1



Quick, divide 84.3 by 84.3.

That is hard!

Use the number line to find 0.63.
Which whole number is 0.63 closest

François told his mother that he had \$0.86 in
What might François say to his mother
if he rounded his money to the nearest whole

Use the number line to locate 1.23
Which whole number is 1.23 closest

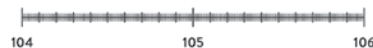
Find the solution to Tim's problem.

ANSWER
105.1

How do I solve 315.
I just break the number
 $300 \div 3 + 15 \div 3 + 0$



$$105,100 \div 10^3 =$$



Find the quotient.

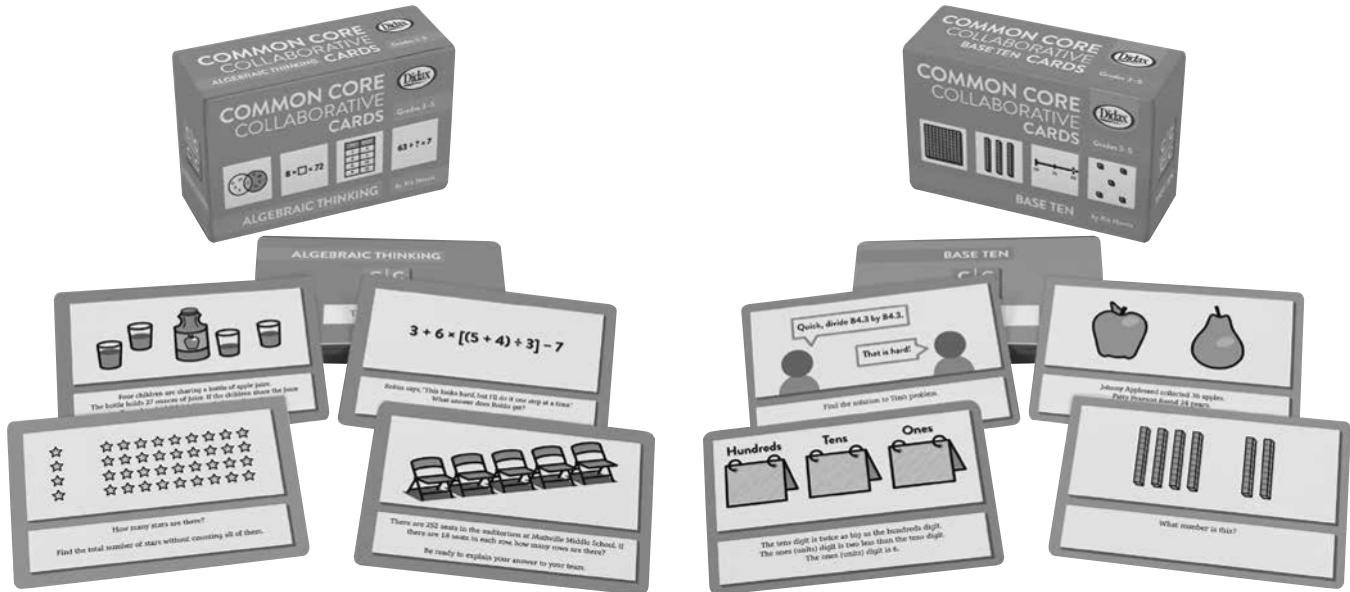
Ms. O'Neill went shopping for holiday
She purchased a sweater for \$84.75 and a book
Ms. O'Neill then spent \$8 on lunch
How much did she spend during this shopping

Find the answer.

Locate 105.09 on this number line.

Round this number to the nearest tenth.

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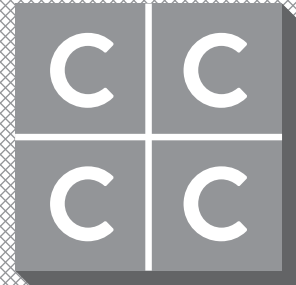
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BASE TEN

TEACHER GUIDE



Practice and reinforce the content from the Common Core State Standards with these innovative activity cards.

Created using the standards in the Number and Operations – Base Ten domain, these cards actively engage students in problem solving and promote mathematical discussion. Students solve the question on their individual card and then look for others who have the same solution. The students holding cards with the same answer form a group; the back of their cards show the role that each student will play as the group works on the next task. Based on the most recent research about the effectiveness of collaborative learning, and in accordance with the Common Core Mathematical Practices, these card sets can be used repeatedly to group students for an upcoming unit or problem-solving lesson. Cards can also be used for small-group instruction or as an independent activity. Each set includes 40 durable, two-color cards per grade level for a total of 120 cards. Teacher's Guide includes suggestions for classroom use, activities, and access to website with additional tasks and resources.



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