3RD Grade
Common Core Lesson Plan Bundle
3.OA.8

I {heart} RECESS
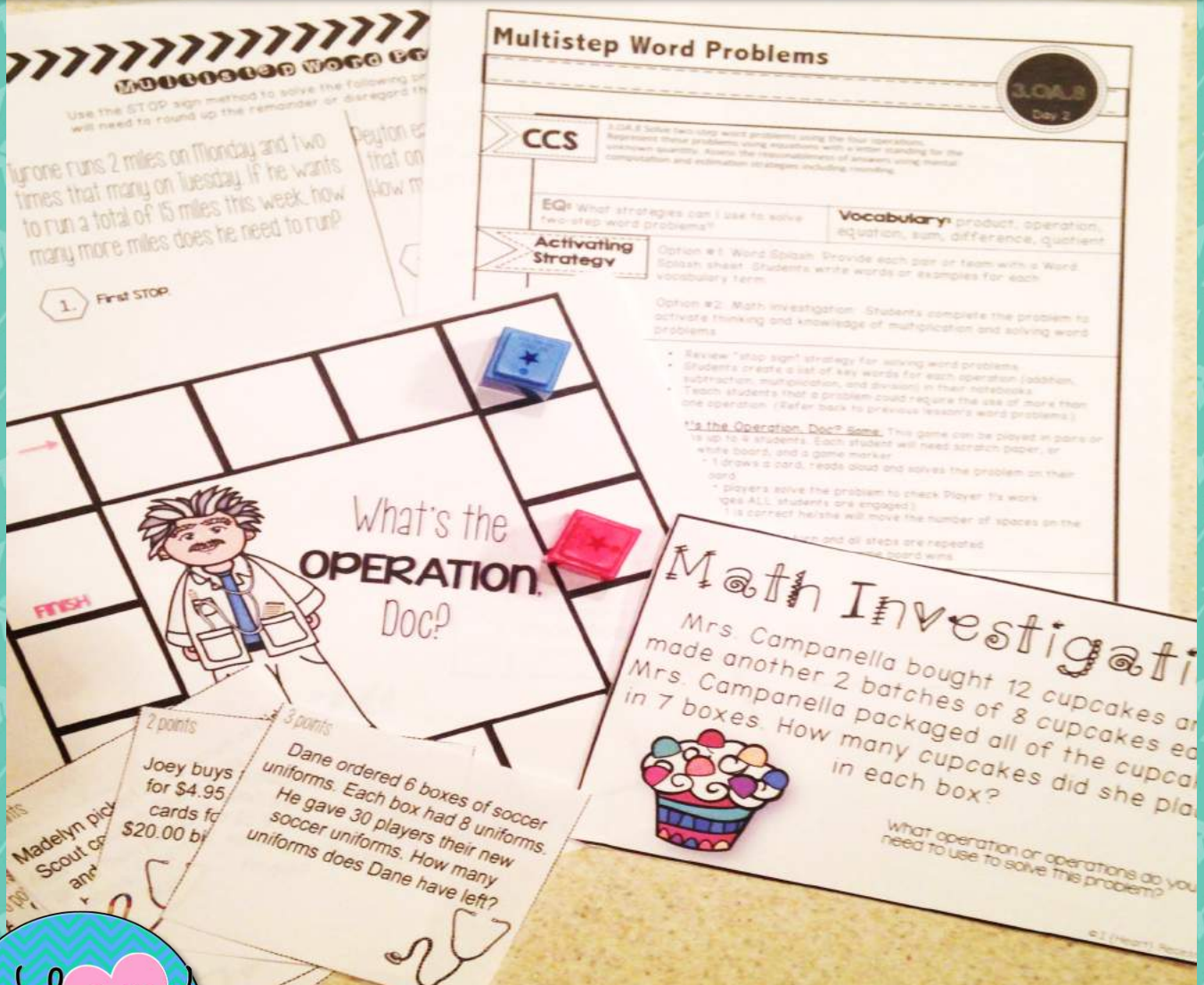
Everything you need for three days of instruction!

CCS
3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy
Option #1: Students write a "Dear Teacher," letter explaining how to solve a word problem. Students can refer to any word problem or the Math Investigation.

Option #2: Math Investigation. Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Math Investigation

The Aloha Zoo has 853 pounds of feed. They feed 420 pounds to the ostriches and 265 pounds to peacocks. How much feed does the zoo have left?

Rylan has 315 songs on his iPod. Emma has 148 more songs than Rylan. Peyton has 52 fewer than Emma. How many songs does Peyton have on her iPod?
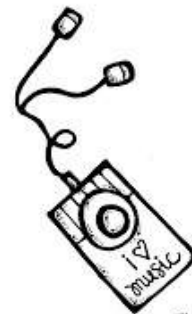
Steps
- Read the problem
- At each "Stop" make notes

1. First STOP.

2. Second STOP.

WORD PROBLEM #1 3.OA.8

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1 3.OA.8

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1 3.OA.8

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books

WORD PROBLEM #1 3.OA.8

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94

Name _____

Use the "Stop Sign Strategy" to solve the following problems.

TWO-STEP Word Problems

Charlie wants to buy a baseball bat worth $85 and a baseball glove worth $67. If Charlie only has $115, how much more money does he need?

STOP 1   STOP 2   STOP 3

Equation & Answer

Maxton earned 23,481 points in level 1 of his video game. On level 2 he earned 45,307 points. Carson earned a total of 89,365 points on level 1 and 2. How many more points did Carson earn than Maxton?

STOP 1   STOP 2   STOP 3

Equation & Answer

CCS
3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy
Option #1: Word Splash. Provide each pair or team with a Word Splash sheet. Students write words or examples for each vocabulary term.

Option #2: Math Investigation. Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Math Investigation

Mrs. Campanella bought 12 cupcakes and made another 2 batches of 8 cupcakes each. Mrs. Campanella packaged all of the cupcakes in 7 boxes. How many cupcakes did she place in each box?

What operation or operations do you need to use to solve this problem?

Players: 2-4

Materials: game board, game piece (Counter/cube, etc.), game cards, whiteboard or scratch paper, marker/pencil

How to Play:
1. The youngest player goes first (Player 1). Players will continue in a clockwise rotation.
2. Player 1 draws a card, reads aloud and solves the problem on their whiteboard.
3. All other players solve the problem to check Player 1's work. If Player 1 is correct he/she will move the number of spaces on the card drawn.
4. Player 2 takes their turn and so on until all steps are repeated.
5. First player to the end of the game board wins.

START →

FINISH

What's the...

3 points
Red buckets can hold 3 apples and blue buckets can hold 5 apples. If Joy has 6 red buckets and 3 blue buckets of apples, how many apples does she have altogether?

2 points
Joey buys a pack of baseball cards for $4.95 and a pack of Pokemon cards for $5.95. He pays with a $20.00 bill. How much change does he get?

5 points
Carson drives a tour bus around

5 points

Multistep Word Problems

Use the STOP sign method to solve the following problems. Determine if you will need to round up the remainder or disregard the remainder.

Tyrone runs 2 miles on Monday and two times that many on Tuesday. If he wants to run a total of 15 miles this week, how many more miles does he need to run?

1. First STOP

2. Second STOP

3. Third STOP

Equation & Answer

Peyton earned $14 on Saturday, and half of that on Sunday. She is trying to save $50. How much more does she need to earn to reach her goal?

1. First STOP

2. Second STOP

3. Third STOP

CCS
3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy
Math Investigation: Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Teaching Strategy
- Review "stop sign" strategy for solving word problems.
- Review key words for each operation (addition, subtraction, multiplication, and division) in their notebooks.

Math Investigation

Lucas earned 120 Class Dojo points last week. This week he earned 85 points. He uses 97 points to earn free time on the computer. How many Class Dojo points does he have left?

FAN-N-PICK

1. Mr. Swain's class is trying to earn $120 to donate to a local animal shelter. They already have raised $80. The class can raise $10 a week by cleaning the lunchroom tables or $8 a week by cleaning up the playground. Which job will help the class earn the rest of the money the fastest?

2. Norah's family are going to the movies. There are 2 adults and 3 children. The tickets cost her family $35. The adult tickets cost twice as much as the children tickets. How much did each person cost?

3. Carmen needs $40 for a new football uniform. He has $8

Name _____   **WORD PROBLEMS** 3.OA.8

1. There are 85 student passengers for the New York City tour bus ride. At the first stop 13 more students got on the bus. At the second stop, 32 students got off the tour bus. How many students remain on the bus after the second stop?

2. There are 60 people in line for the Express Train. Four more people joined the line. Each train car can hold 8 passengers. How many train cars are needed for all the people in line?

Name _____   **WORD PROBLEMS** 3.OA.8

1. There are 85 student passengers for the New York City tour bus ride. At the first stop 13 more students got on the bus. At the second stop, 32 students got off the tour bus. How many students remain on the bus after the second stop?

2. There are 60 people in line for the Express Train. Four more people joined the line. Each train car can hold 8 passengers. How many train cars are needed for all the people in line?

I (heart) RECESS

Multistep Word Problems

3.OA.8
Day 1

CCS

3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy

Option #1: Students write a "Dear Teacher," letter explaining how to solve a word problem. Students can refer to any word problem or the Math Investigation.

Option #2: Math Investigation: Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Teaching Strategy

- Teach "stop sign" strategy for solving word problems.
- Students place copy of the strategy in their notebook or create a flow map to demonstrate the steps.
- Students complete "notes" page as teacher models.

Engage Them!

Pairs Check: Provide each pair of students with a word problem task card (#1 and #2). Students work together to Think-Speak-Write to solve the problem.
1. Students think about how to solve their problem.
2. Students share/speak with each other how they plan to solve the problem.
3. Students work together practicing the Stop Sign Strategy to solve the problem.
4. Students write about how they solved the problem and why their answer makes sense.
5. Students share with another pair their solution/work.

Summary Strategy

The Most Important Thing...
On a sticky note students write about "The most important thing about word problems is _____ because _____."

Practice

Students complete "Two-Step Word Problems" in centers, independently, or with a partner. Students can glue the sheet into their notebook to refer to later if needed.

Math Investigation

The Aloha Zoo has 853 pounds of feed. They feed 420 pounds to the ostriches and 265 pounds to peacocks. How much feed does the zoo have left?

Math Investigation

The Aloha Zoo has 853 pounds of feed. They feed 420 pounds to the ostriches and 265 pounds to peacocks. How much feed does the zoo have left?

STOP

STOP Sign Strategy

1. Read the entire problem, but DO NOT SOLVE.

2. Reread the problem. STOP when you see

    . , ? and but

3. At each STOP make a note, draw a picture,

    or underline important information.

4. Repeat steps 2 & 3 until the problem is

    completely read.

5. Solve the problem.

Rylan has 315 songs on his iPod. Emma has 148 more songs than Rylan. Peyton has 52 fewer than Emma. How many songs does Peyton have on her iPod?

Steps
- Read the problem

- At each "Stop" make notes

1. First STOP.

2. Second STOP.

3. Third STOP.

- Equation/Answer/Reasoning

Rylan has 315 songs on his iPod. Emma has 148 more songs than Rylan. Peyton has 52 fewer than Emma. How many songs does Peyton have on her iPod?

Steps
- Read the problem

- At each "Stop" make notes

1. First STOP.

Rylan-315 songs

2. Second STOP.

Emma- 148 + 315 =

3. Third STOP.

Peyton- Emma's songs- 52

- Equation/Answer/Reasoning

148 + 315 = 463   Peyton has 411 songs.
463 - 52 = 411

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #1

The owner of a book store has 300 books to pack into boxes. On Wednesday he packs 163 books and on Thursday he packs 94 books. How many more books does the owner need to pack into the boxes?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

WORD PROBLEM #2 — 3.OA.8

The local bakery made 100 chocolate candies. They sold 64 candies and placed the remaining candies equally into 9 boxes. How many candies did the bakery place in each box?

Name _____

Use the "Stop Sign Strategy" to solve the following problems.

TWO-STEP Word Problems

Charlie wants to buy a baseball bat worth $85 and a baseball glove worth $67. If Charlie only has $115, how much more money does he need?

STOP 1   STOP 2   STOP 3

Equation & Answer

Maxton earned 23,481 points in level 1 of his video game. On level 2 he earned 45,307 points. Carson earned a total of 89,365 points on level 1 and 2. How many more points did Carson earn than Maxton?

STOP 1   STOP 2   STOP 3

Equation & Answer

Multistep Word Problems

CCS

3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy

Option #1: Word Splash. Provide each pair or team with a Word Splash sheet. Students write words or examples for each vocabulary term.

Option #2: Math Investigation: Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Teaching Strategy

- Review "stop sign" strategy for solving word problems.
- Students create a list of key words for each operation (addition, subtraction, multiplication, and division) in their notebooks.
- Teach students that a problem could require the use of more than one operation. (Refer back to previous lesson's word problems.)

Engage Them!

What's the Operation, Doc? Game: This game can be played in pairs or in groups up to 4 students. Each student will need scratch paper, or student white board, and a game marker.
1. Player 1 draws a card, reads aloud and solves the problem on their whiteboard.
2. All other players solve the problem to check Player 1's work. (Encourages ALL students are engaged.)
3. If Player 1 is correct he/she will move the number of spaces on the card drawn.
4. Player 2 takes their turn and all steps are repeated.
5. First player to the end of the game board wins.

Summary Strategy

3-2-1:
Students write three operations, 2 key words, and one equation for any operation.

Practice

Students complete "Multistep Word Problems" in centers, independently, or with a partner. Students can glue the sheet into their notebook to refer to later if needed.

Addition   Subtraction

WORD SPLASH

Multiply   Divide

Math Investigation

Mrs. Campanella bought 12 cupcakes and made another 2 batches of 8 cupcakes each. Mrs. Campanella packaged all of the cupcakes in 7 boxes. How many cupcakes did she place in each box?

What operation or operations do you need to use to solve this problem?

© I {Heart} Recess

Players: 2-4

Materials: game board, game piece (Counter/cube, etc.), game cards, whiteboard or scratch paper, marker/pencil

How to Play:
The youngest player goes first (Player 1). Players will continue in a clockwise rotation.
1. Player 1 draws a card, reads aloud and solves the problem on their whiteboard.
2. All other players solve the problem to check Player 1's work. If Player 1 is correct he/she will move the number of spaces on the card drawn.
3. Player 2 takes their turn and all steps are repeated.
4. First player to the end of the game board wins.
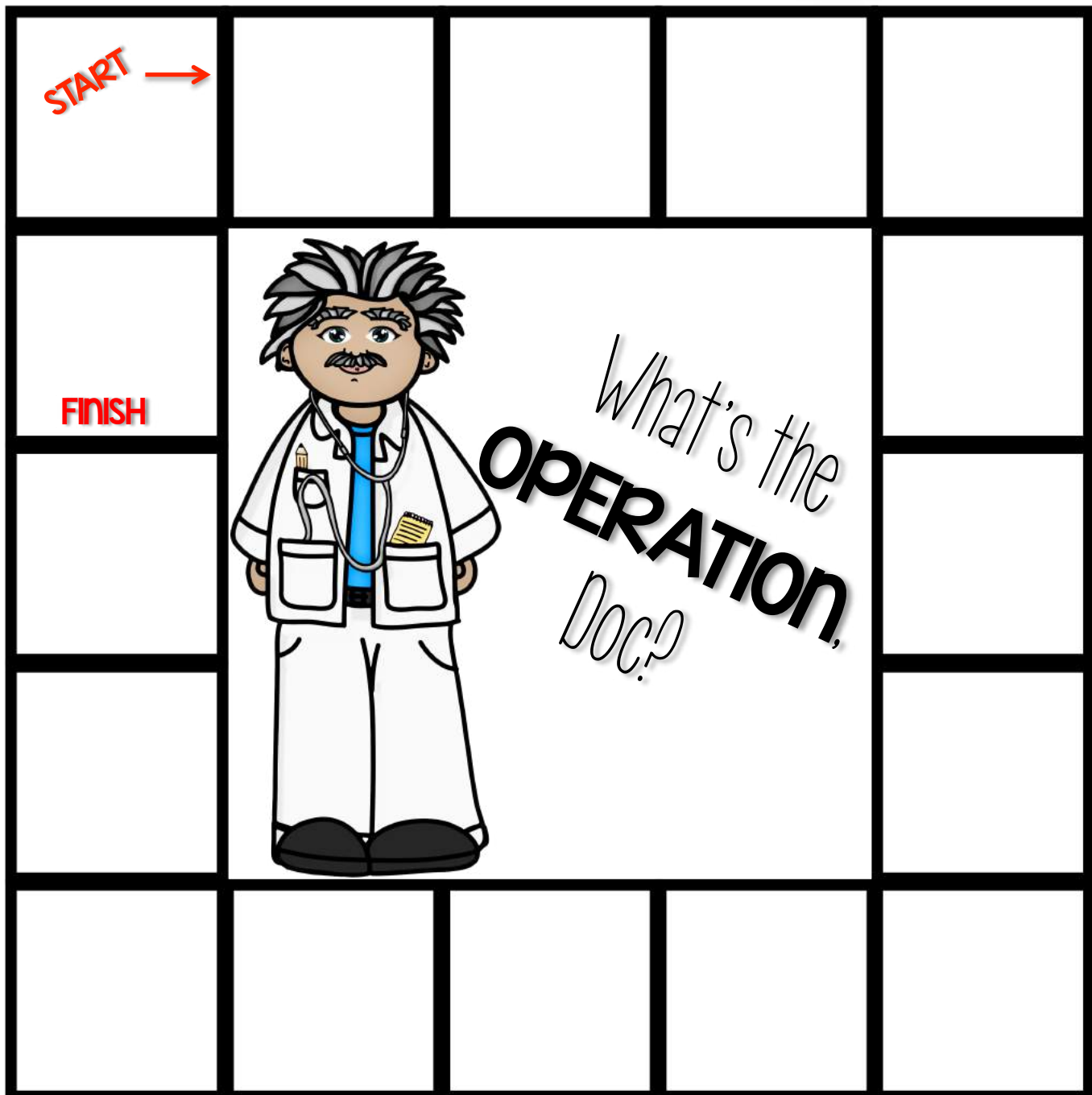
START →

FINISH

What's the OPERATION, Doc?

3 points

Red buckets can hold 3 apples and blue buckets can hold 5 apples. If Joy has 6 red buckets of apples and 3 blue buckets of apples, how many apples does she have altogether?

2 points

Joey buys a pack of baseball cards for $4.95 and a pack of Pokemon cards for $5.95. He pays with a $20.00 bill. How much change does he get?

5 points

Carson drives a tour bus around the city. Ten people were on the bus at the start of the tour. At the first stop, 7 more people got on the bus. On the second stop, 4 people got off. How many people were on the bus after the second stop?

5 points

Madelyn picked up 42 boxes of Girl Scout cookies. She sold 24 boxes and then picked up another 36 boxes. How many boxes of Girl Scout cookies does she have?
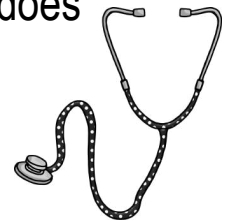
3 points

Dane ordered 6 boxes of soccer uniforms. Each box had 8 uniforms. He gave 30 players their new soccer uniforms. How many uniforms does Dane have left?

2 points

A rope is 54 feet long. Jeff needs 20 feet of rope and Lori needs 15 feet of rope. If they both cut their string, how much string will be left over?

3 points

A toy box can hold 10 toys. A toy carton can hold 4 toys. Jessica brings 8 toy boxes and 7 toy cartons of toys to donate to Goodwill. How many toys did she bring?

2 points

A van can hold 4 adults and 3 children. A car can hold 2 adults and 3 children. If 6 vans and 4 cars go on a camping trip, how many people are able to go on the trip?

5 points

Wendy has 5 packages of diapers to donate to a day care center. Each package contains 10 diapers. If she hands out 45 diapers to the center, how are left over?

5 points

Kyler has an album with Pokemon cards in it. Each page holds 9 cards. He has 6 pages total. If he chooses to give 12 cards to his sister, how many cards does Kyler have now?

3 points

Hunter has goody bags prepared for his party. There are 8 goody bags. Each bag contains 7 pieces of candy. Hunter's little sister took two bags for herself. How many pieces of candy does Hunter need to buy to replace what his sister stole?
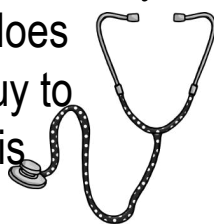
2 points

Thalan has 14 pieces of yellow paper and 28 pieces of red paper for his art class. If 7 students come to class, how many pieces of paper will each person get?

Multistep Word Problems

Use the STOP sign method to solve the following problems. Determine if you will need to round up the remainder or disregard the remainder.

Tyrone runs 2 miles on Monday and two times that many on Tuesday. If he wants to run a total of 15 miles this week, how many more miles does he need to run?

Peyton earned $14 on Saturday, and half of that on Sunday. She is trying to save $50. How much more does she need to earn to reach her goal?

1. First STOP.

1. First STOP.

2. Second STOP.

2. Second STOP.

3. Third STOP.

3. Third STOP,

Equation & Answer.

Equation & Answer.

Multistep Word Problems

CCS

3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

EQ: What strategies can I use to solve two-step word problems?

Vocabulary: product, operation, equation, sum, difference, quotient

Activating Strategy

Math Investigation: Students complete the problem to activate thinking and knowledge of multiplication and solving word problems.

Teaching Strategy

- Review "stop sign" strategy for solving word problems.
- Review key words for each operation (addition, subtraction, multiplication, and division) in their notebooks.
- Go over Math Investigation problem.

Engage Them!

*Note: These are challenging questions and I recommend Option #2.

Option #1: Using the Fan-N-Pick Cards students play Team Showdown. Group students into teams of 4. Student #1 Fans the cards. Student #2 picks a card. Student #3 reads the card aloud for his/her team. ALL students solve the problem on their individual white boards, notebooks, etc. Student #4 says "Showdown" and all students show their work. Students discuss ways to solve the problem or if a student has an incorrect solution. Repeat the steps by rotating jobs until all cards have been answered. (#2 fans, #3 picks, etc.)

Option #2: Give each team one task card glued to a large piece of paper. Each team works together to solve the problem. Once all teams have completed their task card, students do a gallery walk to review the tasks their classmates solved.

Summary Strategy

Summary Sentence...
On a sticky note students write one sentence that summarizes what they learned today during the lesson.

Practice

Students complete "Word Problems" in centers, independently, or with a partner. Students can glue the sheet into their notebook to refer to later if needed.

Math Investigation

Lucas earned 120 Class Dojo points last week. This week he earned 85 points. He uses 97 points to earn free time on the computer. How many Class Dojo points does he have left?

© I {Heart} Recess

FAN-N-PICK

1.

Mr. Swain's class is trying to earn $120 to donate to a local animal shelter. They already have raised $80. The class can raise $10 a week by cleaning the lunchroom tables or $8 a week by cleaning up the playground. Which job will help the class earn the rest of the money the fastest?

2.

Norah's family are going to the movies. There are 2 adults and 3 children. The tickets cost her family $35. The adult tickets cost twice as much as the children tickets. How much did each person cost?

3.

Carmen needs $40 for a new football uniform. He has $8 saved. His mother said she will pay him $3 a week to wash the car. How many weeks will he have to wash the car to have enough money for his new uniform?

4.

Isabelle's class is collecting Box Tops to raise money for new play ground equipment. There are 67 box tops in the collection bin. In one week 53 box tops were added. If the class goal is to collect 400 box tops how many more do they need?

1. There are 85 student passengers for the New York City tour bus ride. At the first stop 13 more students got on the bus. At the second stop, 32 students got off the tour bus. How many students remain on the bus after the second stop?

2. There are 60 people in line for the Express Train. Four more people joined the line. Each train car can hold 8 passengers. How many train cars are needed for all the people in line?

Created by I {Heart} Recess ©2016

ANSWER KEY

Day 1

Math Investigation
853-420 = 433
433-265 = 168

WP #1
300-257= 43

WP#2
100-64=36
36/9=4

Two-Step Problems
1. 152-115 = $37
2. 23,481 + 45,307 = 68,788
    89, 365 − 68, 788 = 20, 677

Day 2

Math Investigation
12 + 16 = 28
28/7 = 4

Multistep WP
1. 2 + 4 = 6
    15-6=9
2. 14 + 7 = 21
    50 − 21 = 29

Day 3

Math Investigation
205 − 97 = 103

Fan – n- Pick
1. $40, $10 a week for 4 weeks
2. Adult $10, Children $5 each
3. $32, 11 more weeks
4. 67 + 53 = 120, 400 − 120 = 280

Word Problems
1. 85 + 13 = 98, 98 − 32 = 66
2. 60 + 4 = 64, 64/8 = 8

Thank you for your purchase!

Thank you for purchasing "Multistep Word Problems 3.OA.8"! Please visit my
Teachers Pay Teachers store ,
http://www.teacherspayteachers.com/Store/Jessica-Scott-2034,
for some freebies and other ideas.
Or
Follow I {Heart} Recess on Bloglovin'
http://www.bloglovin.com/en/blog/5294959
and Facebook
https://www.facebook.com/IHeartRecess
Email
jam082381@yahoo.com

You might also like:

Thank you to all of the talented artists for creating the amazing fonts and graphics featured in this product!

I {Heart} Recess © 2016