

# Red challenge

Show four different ways to make each number.

1. 135

\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones

2. 326

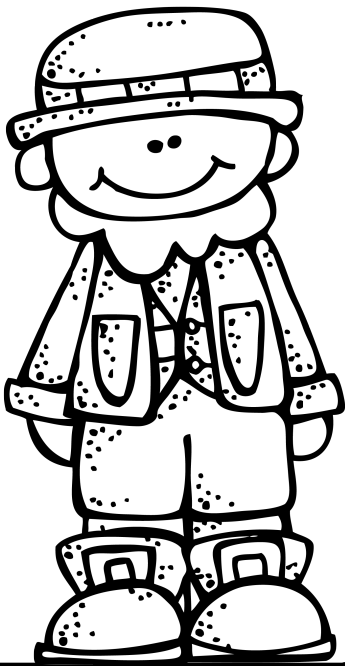
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones

3. 402

\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones

4. 283

\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones  
\_\_\_\_\_ hundreds \_\_\_\_\_ tens \_\_\_\_\_ ones



5. The number of four-leaf clovers Red Leprechaun found is equal to 3 hundreds, 16 tens and 42 ones. How many total clovers did he find? Write the amount in standard form, expanded form and word form.

Standard form: \_\_\_\_\_

Expanded form: \_\_\_\_\_

Word form: \_\_\_\_\_

# ORANGE challenge

Show 3 ways to make the amount listed using no more than 5 pennies per line.

1. 32¢    \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies
2. 67¢    \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies
3. 85¢    \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies  
          \_\_\_ half-dollars    \_\_\_ quarters    \_\_\_ dimes    \_\_\_ nickels    \_\_\_ pennies

4. Orange Leprechaun has 4 half-dollars, 6 quarters, 5 dimes, 10 nickels, and 75 pennies.

A. How much money does she have all together? \$ \_\_\_\_\_

B. She wants to buy 3 bags of chocolate coins that cost \$2.25 each. How much will they cost all together? \$ \_\_\_\_\_

C. Does she have enough money to buy them? \_\_\_\_\_

D. How much more money does she need? \$ \_\_\_\_\_



# yellow challenge

Fill in the blank space to make each equation EQUAL.

1.  $6 + 14 = \underline{\quad\quad} + 10$

6.  $\underline{\quad\quad} + 12 = 11 + 9$

2.  $30 - 9 = 21 + \underline{\quad\quad}$

7.  $13 + 12 = \underline{\quad\quad} + 15$

3.  $9 - \underline{\quad\quad} = 20 - 15$

8.  $\underline{\quad\quad} + 25 = 50 - 5$

4.  $12 - \underline{\quad\quad} = 18 - 9$

9.  $\underline{\quad\quad} + 18 = 23 - 2$

5.  $20 - 6 = 9 + \underline{\quad\quad}$

10.  $95 + \underline{\quad\quad} = 125 - 25$



Write a balanced equation to match the following problem.

11. Yellow Leprechaun counted his coin collection. He wanted his total gold coins to equal his total silver coins.

He found 16 gold coins in one bag & 25 gold coins in another bag. When he counted his silver coins, he had 32 coins. How many more silver coins does he need to have the same amount of gold coins and silver coins?

$$\underline{\quad\quad} + \underline{\quad\quad} = \underline{\quad\quad} + \underline{\quad\quad}$$

gold coins  silver coins

# green challenge

1. Using the three digits shown, create every possible 3-digit number.

4 9 3

\_\_\_\_\_

\_\_\_\_\_

2. Order the numbers from greatest to least.

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Choose numbers from above to make the true equations.

3. \_\_\_\_\_ < \_\_\_\_\_ > \_\_\_\_\_

4. \_\_\_\_\_ > \_\_\_\_\_ > \_\_\_\_\_

5. Using the digits 0, 1, 5 and 8, what is the LARGEST 3-digit number you can make?

\_\_\_\_\_

6. Using the digits 0, 1, 5 and 8, what is the SMALLEST 3-digit number you can make?

\_\_\_\_\_



# BLUE challenge

Use the table to solve each word problem. Use \$ and ¢ in your answers.

TOY	PRICE
car	55¢
plane	75¢
ball	42¢
doll	86¢
ring	61¢

1. Blue Leprechaun wants to buy a toy car and a toy plane.

A. How much money does he need to buy both?

\_\_\_\_\_

B. If he pays with \$2.00, how much change will he get?

\_\_\_\_\_

2. Blue Leprechaun isn't sure which costs more: A doll and a ring OR A ball and a plane?

A. How much does a doll and a ring cost?

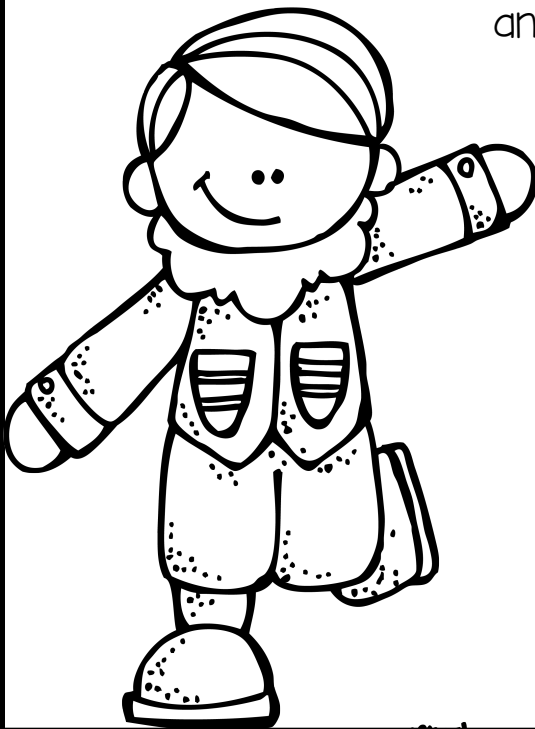
\_\_\_\_\_

B. How much does a ball and plane cost?

\_\_\_\_\_

C. Which combo should he buy if he only has \$1.25?

\_\_\_\_\_



# PURPLE challenge

Find the sum or difference using ANY STRATEGY you'd like.  
List the strategy used.

1.  $452 + 213 =$  \_\_\_\_\_

2.  $186 + 304 =$  \_\_\_\_\_

3.  $364 + 425 =$  \_\_\_\_\_

Strategy I used:

\_\_\_\_\_

Strategy I used:

\_\_\_\_\_

Strategy I used:

\_\_\_\_\_

4.  $352 - 128 =$  \_\_\_\_\_

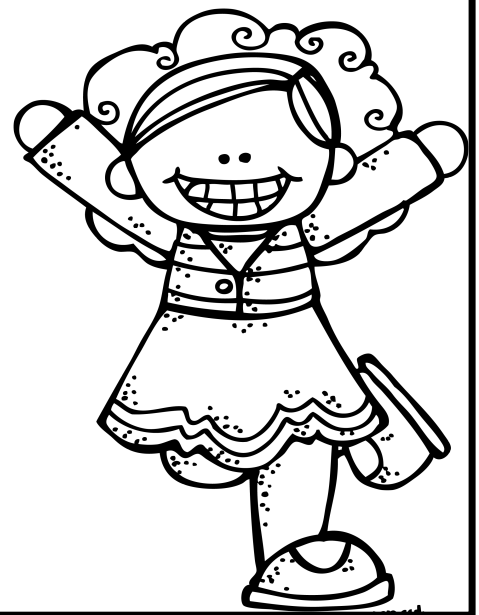
5.  $571 - 256 =$  \_\_\_\_\_

Strategy I used:

\_\_\_\_\_

Strategy I used:

\_\_\_\_\_



# Pot o' gold challenge

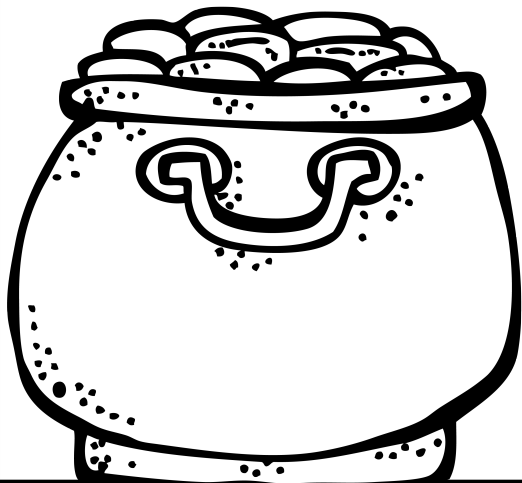
Solve the following money riddles using half-dollars, quarters, dimes, nickels and pennies.

1. I have three coins. Their values are not the same. Coin #1 is worth more than a penny but less than a dime. Coin #2 is the smallest coin in size but not in value. Our total value is 40 cents. What coins do I have?

COIN #1 \_\_\_\_\_ COIN #2 \_\_\_\_\_ COIN #3 \_\_\_\_\_

2. I have three coins. Coin #1 and Coin #2 have the same value. Coin #3 is a different color than all other coins and has the least value of any coin. Our total value is more than \$1.00. What coins do I have?

COIN #1 \_\_\_\_\_ COIN #2 \_\_\_\_\_ COIN #3 \_\_\_\_\_



3. I have two coins. Coin #1 has a value that is more than 10 but less than 50. Coin #2 has a value that is equal to ten nickels. Our total value is 75 cents. What coins do I have?

COIN #1 \_\_\_\_\_ COIN #2 \_\_\_\_\_

# 2Nd GRAdE

## answer key

### Red Challenge

1-4, answers will vary.  
Possible answers listed will look similar to these for #1:

1. 1 hundred, 3 tens, 5 ones  
1 hundred, 2 tens, 15 ones  
1 hundred, 1 tens, 25 ones  
1 hundred, 0 tens, 35 ones  
0 hundreds, 12 tens, 15 ones  
0 hundreds, 13 tens, 5 ones
5. 502,  $500+0+2$ , five hundred, two

### Orange Challenge

For # 1-3, Possible answers shown.

1. 32¢

HD	Q	D	N	P
0	1	0	1	2
0	0	3	0	2
0	0	2	2	2
0	0	1	4	2

2. 67¢

HD	Q	D	N	P
1	0	1	1	2
1	0	0	3	2
0	2	1	1	2
0	2	0	3	2

3. 85¢

HD	Q	D	N	P
1	1	1	0	0
1	1	0	3	0
0	3	1	0	0

- 4A. \$5.25    4B. \$6.75  
4C. No        4D. \$1.50 more

### Yellow Challenge

1. 10                      6. 8                      11.  $16 + 25 = 32 + 9$
2. 0                      7. 10
3. 4                      8. 20
4. 3                      9. 3
5. 5                      10. 5

### Green Challenge

1. 349, 394, 439, 493, 934, 943
2. 943, 934, 493, 439, 394, 349
- 3-4. Answers will vary    5. 851                      6. 105

### Blue Challenge

- 1A. \$1.30  
1B. \$0.70  
2A. \$1.47  
2B. \$1.17  
2C. ball & plane

### Purple Challenge

1. 665
2. 490
3. 789
4. 224
5. 315

### Pot O' Gold Challenge

1. nickel, dime, quarter
2. half-dollar, half-dollar, penny
3. quarter, half-dollar



# UNLOCK the rainbow CHALLENGE

TRAVELER NAME: \_\_\_\_\_

## MISSION:

Correctly complete SEVEN math challenges to reach The Pot of Gold! Each correctly completed challenge will allow you to move forward in your journey.

## TIPS FOR YOUR JOURNEY:

1. Follow ALL directions given.
2. Work with your partner as a TEAM!  
Every challenge must be correctly completed TOGETHER!
3. Outstanding teamwork and words of encouragement seen while you play can earn you special gold coins that will be used for an extra reward!

