

Coin Collector Scavenger Hunt

Object of the Game

Are you ready for a scavenger hunt?

Find or draw all nine items from the list to be a Scavenger Scholar!

Materials

- Scavenger Hunt List
Print the record sheets or write the numbers 1-9 on paper.
- Pencil or pen
- Coins and \$1 bills, or use the free Money Pieces app available here: www.mathlearningcenter.org/resources/apps/money-pieces.
- A curious mind

COIN COLLECTOR SCAVENGER HUNT | FAMILY GAME

Coin Collector Scavenger Hunt (Grade 5)
Find or draw the coins or bills that represent the following. If possible, write equations in both fractions and decimals to show the answers. (\$1 = 1 whole)

1 2 quarters + 3 dimes	2 1 whole and $\frac{3}{4}$ minus $\frac{2}{10}$	3 $\frac{3}{20} + 1\frac{1}{4}$
4 $4 \times \frac{1}{10}$	5 $\frac{1}{4}$ of 2 wholes	6 $1\frac{4}{5} - \frac{3}{4}$
7 \$3 shared equally with 4 people	8 $1\frac{3}{4} + 1\frac{3}{5}$	9 $\frac{4}{5}$ less than \$2

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Skills

This game helps us practice:

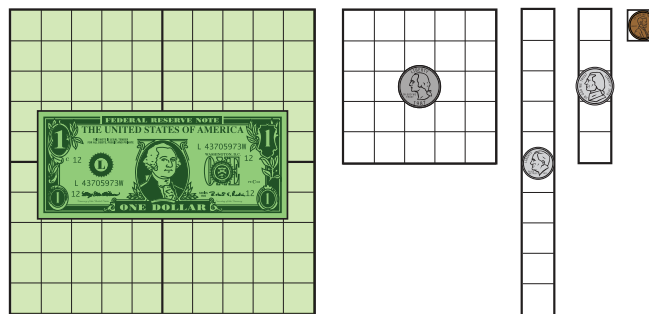
- Modeling and working with fractions and decimals, using money



= 1 whole

How to Play

- Before you begin, here are some things you need to know.
 - » This activity invites students to think about coins as fractions and decimals.
 - » \$1.00 is the whole. So, a quarter is .25 or $\frac{1}{4}$; a dime is .1, .10 or $\frac{1}{10}$; a nickel is .05 or $\frac{1}{20}$, and penny is .01 or $\frac{1}{100}$.



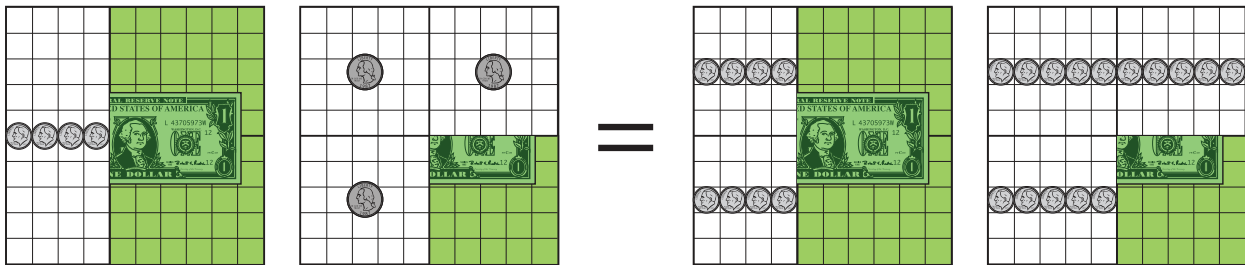
- » Each item on the hunt is either an amount of money you will model with coins and represent with decimals and fractions, or a problem that can be modeled and solved with coins and bills.

2. Are you ready to begin? Use actual coins or sketch pictures of coins to represent what's on the list.

(P) = penny
 (N) = nickel
 (D) = dime
 (Q) = quarter

3. Then write equations and answers in fraction form and decimal form.

For example, if the problem asks for $\frac{4}{10} + \frac{3}{4}$, you could write it as $.4 + .75 = 1.15$ AND as $\frac{8}{20} + \frac{15}{20} = 1\frac{3}{20}$.



$$\frac{4}{10} + \frac{3}{4} =$$

$$\frac{4}{10} + \frac{3}{4} =$$

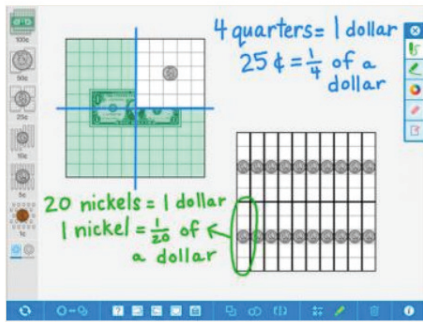
$$\frac{8}{20} + \frac{15}{20} = \frac{23}{20} = 1\frac{3}{20}$$

$$\$0.40 + \$0.75 = \$1.15$$

4. Challenge yourself to do all nine representations.
5. Have fun!

Tips for Families

1. If you don't have a copy of the record sheet or can't print a copy right now, have your child make a numbered list from 1 to 9 on paper.
2. You don't have to complete the scavenger hunt all at once. You can come back to it later.
3. If dollars and coins aren't available, remember that it's okay to draw pictures. You could also use the free Money Pieces app.



The free app is available for iPad, Web and Chrome.

You can get it here:

www.mathlearningcenter.org/resources/apps/money-pieces

Change It Up

Making even small changes to a game can invite new ways of thinking about the math. Try making one of the changes below.

- Set a timer! How long did it take you to find or draw examples for all 9 squares? Did it take you more or less than 20 minutes? How much more or less time?
- What if a quarter was the 1 whole? What would a dollar be? What would a nickel be?

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(\$1 = 1 whole)

<p style="text-align: center;">1</p> <p style="text-align: center;">2 quarters + 3 dimes</p>	<p style="text-align: center;">2</p> <p style="text-align: center;">1 whole and $\frac{3}{4}$ minus $\frac{2}{10}$</p>	<p style="text-align: center;">3</p> <p style="text-align: center;">$\frac{3}{20} + 1\frac{1}{4}$</p>
<p style="text-align: center;">4</p> <p style="text-align: center;">$4 \times \frac{1}{10}$</p>	<p style="text-align: center;">5</p> <p style="text-align: center;">$\frac{1}{4}$ of 2 wholes</p>	<p style="text-align: center;">6</p> <p style="text-align: center;">$1\frac{4}{5} - \frac{3}{4}$</p>
<p style="text-align: center;">7</p> <p style="text-align: center;">\$3 shared equally with 4 people</p>	<p style="text-align: center;">8</p> <p style="text-align: center;">$1\frac{3}{4} + 1\frac{3}{5}$</p>	<p style="text-align: center;">9</p> <p style="text-align: center;">$\frac{4}{5}$ less than \$2</p>