



CHANGE MAKERS

SMALL GROUP ACTIVITY

5+ MINUTES

- Lead this quick cognitive warm up to build attention, nimbleness and self-awareness, as well as group connection.
- Ask 1 of the Change Makers question prompts from the list below.
- Have students call out answers until one is correct.
- Encourage students to work as quickly as possible.
- When repeating this class, select different prompts (note however that some of the prompts are linked to the same story). Or ask students to volunteer to come up with Change Maker questions for the class to answer.
- Encourage distance learners to join in from home.

Hello! I'm glad we are all here for our Total Brain Health "Brain Play." These fast-paced workouts are an important way we can keep our thinking focused, quick, and nimble.

Today's Brain Play is "Change Makers." This is a fast-paced math workout that is great for our mental processing speed and problem-solving skills. I'll ask you a question about using dollars and cents and perhaps even some other currencies. When you have the answer, go ahead and shout it out. If we are all stumped, we can solve the "change maker" question together on the (whiteboard/flip chart). We'll go at a quick pace, so let's think fast! Ready?

"CHANGE MAKERS" PROMPTS

1. A pack of gum costs \$1.89. You give the clerk \$2.00. What change are you owed?
2. Apples are \$1.35 a pound. You buy 2 pounds. What do you pay for the apples?
3. The apples are so good you go back and buy 2 more pounds! What's your new total?
4. Mary and Sue are splitting a dinner bill of \$47.80. How much do they each owe?
5. Mary and Sue forgot to add a tip! They decide to leave a 20% tip on their dinner bill of \$47.80. How much will they leave for a tip?
6. What is Mary and Sue's new dinner bill total when they include the tip?

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7. Mary and Sue have to now split the bill with the tip. How much do they each owe?
8. Your favorite cereal is 10% off the usual cost of \$4.99 a box. What's the sale price?
9. You are so excited about the cereal sale you buy 5 boxes! What's your total?
10. The community center has scheduled a museum trip. 37 people signed up, but the center's van can only seat 8. How many trips will they have to make to get everyone there?
11. You are visiting Canada. The current exchange rate is 1.4 Canadian dollars to the U.S. dollar. You go to change \$100 US dollars. How many Canadian dollars should you get?
12. Avocados cost \$3.50 a half dozen. You buy 12. What do you pay for the avocados?
13. Sam buys tickets for \$90.37 and pays with a \$100.00 bill. What change is he owed?
14. You have a \$25 coupon for a prescription that costs \$73.48. What do you owe?
15. Your grandson's school is selling booster tickets for the homecoming game at \$36.00 a seat. You want to treat your whole family of 7 to the game. How much do you owe?

ANSWER KEY: 1. 11 cents, 2. \$2.70 3. \$5.40 4. \$23.90 5. \$9.56 6. \$57.36 7. \$28.68 8. \$4.49 9. \$22.45 10. 5 11. \$140.00 CD 12. \$7.00 13. \$9.63 14. \$48.48 15. \$252.00



CHANGE MAKERS

TAKE-HOME WORKSHEET

TOTAL BRAIN HEALTH BRAIN PLAYS

Studies have demonstrated that daily training involving reading and arithmetic problems has been effective in improving cognitive function in adults.

BUILD YOUR BRAIN

Practice these fast-paced math workouts to challenge your mental processing speed and problem-solving skills.

“CHANGE MAKERS” PROMPTS

- Ron paid \$20.00 for his new markers that cost only \$15.37. What change should he get?
___ one dollar bills ___ quarters ___ dimes ___ nickels ___ pennies
- Neddy is working the cash register at his local fruit stand. The price of the customers' produce is \$7.69. The customer hands Neddy a \$10.00 bill. What is the correct change?
_____ one dollar bills _____ quarters _____ dimes
_____ nickels _____ pennies
- Yolanda is selling smoothies at a local fair. She rings up a drink order and it comes to \$14.86. The purchaser hands her \$20.00. What is the correct change?
_____ one dollar bills _____ quarters _____ dimes
_____ nickels _____ pennies
- Carlos received \$50.00 for a dinner order that came to \$37.22. What is the correct change?
_____ one dollar bills _____ quarters _____ dimes
_____ nickels _____ pennies
- The price for a new deck of cards is \$4.09. You give the person at the register \$10.00. What do they owe you?
_____ one dollar bills _____ quarters _____ dimes
_____ nickels _____ pennies
- Krishon gets \$1.00 each time he sells a water. But, the water only costs \$0.87. How much change does Krishon give his clients?
_____ one dollar bills _____ quarters _____ dimes
_____ nickels _____ pennies

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7. Your dog needs a new toy that costs \$4.21. You hand the clerk at the register \$10.00. What change should you get back?

_____ one dollar bills _____ quarters _____ dimes
 _____ nickels _____ pennies

8. The price for a new refrigerator was \$586.13. You give the sales clerk \$600.00. What is your change?

_____ one dollar bills _____ quarters _____ dimes
 _____ nickels _____ pennies

9. You buy a used Chevrolet for \$967.59. You hand the used car dealer \$1,000.00. What is your change?

_____ one dollar bills _____ quarters _____ dimes
 _____ nickels _____ pennies

10. In the middle of the night you decide you need to buy a new pillow. At the all night store, you find the perfect pillow for \$3.49. You check out paying \$20.00. What is your change?

_____ one dollar bills _____ quarters _____ dimes
 _____ nickels _____ pennies

Answer Key: **1.** 4 one dollar bills 2 quarters, 1 dime, 3 pennies **2.** 2 one dollar bills, 1 quarter, 6 pennies **3.** 5 one dollar bills, 1 dime, 4 pennies **4.** 12 one dollar bills, 3 quarters, 3 pennies **5.** 5 one dollar bills, 3 quarters, 1 dime, 1 nickel, 1 penny **6.** 1 dime, 3 pennies **7.** 5 one dollar bills, 3 quarters, 4 pennies **8.** 13 one dollar bills, 3 quarters, 1 dime, 2 pennies **9.** 32 one dollar bills, 1 quarter, 1 dime, 6 pennies **10.** 16 one dollar bills, 2 quarters, 1 penny