



Check solutions by substitution

1

What is the value of this equation when $b=3$,
 $x=4$

$$3b - 5x$$

A $-11b$	B -11
C $3b - -11$	D -27
E $b^3 + -11$	F $-16b$

2

Substitute the given number for the variable
to form a single solvable equation

$$7y + z = 60$$

$$z = 4$$

$$y = ?$$

A $7y + 10 = 60$	B $7y + 4 = 60$
C $7y - 4 = 60$	D $8y + 4 = y$
E $7y - 9 = 60$	

3

Is $x = -12$ a valid solution to the equation?

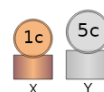
$$|2x + 4| + |2x - 6| = 10$$

A Yes	B No
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4

With X Pennies and Y Nickels, some coins are worth
\$0.06. With Y Pennies and X Nickels they would be
worth \$0.6. What is $X + Y$?

\$0.06



A 7	B 10	C 3
D 8	E 2	

5

Is $x = 4$ a valid solution to the equation?

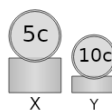
$$|2x - 8| + |3x - 18| = 6$$

A Yes	B No
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6

With X Nickels and Y Dimes, some coins are worth
\$0.40. With Y Nickels and X Dimes they would be worth
\$0.50. What is $X + Y$?

\$0.40



A 6	B 14	C 9	D 10
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7

Is $x = -2$ a valid solution to the equation?

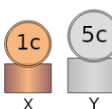
$$|2x + 10| + |3x| = 12$$

A No	B Yes
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8

With X Pennies and Y Nickels, some coins are worth
\$0.24. With Y Pennies and X Nickels they would be
worth \$0.24. What is $X + Y$?

\$0.24



A 11	B 2	C 8	D 14
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9Is $x = 10$ a valid solution to the equation?

$$|3x + 12| + |3x - 18| = 30$$

A

No

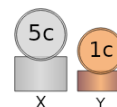
B

Yes

10

With X Nickels and Y Pennies, some coins are worth \$0.22. With Y Nickels and X Pennies they would be worth \$0.14. What is $X + Y$?

\$0.22



A 1

B 6

C 12

11Is $x = 0$ a valid solution to the equation?

$$|3x + 9| + |x + 2| = 11$$

A

No

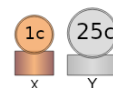
B

Yes

12

With X Pennies and Y Quarters, some coins are worth \$0.53. With Y Pennies and X Quarters they would be worth \$0.77. What is $X + Y$?

\$0.53



A 4

B 7

C 1

D 5

E 8