

M10 - 9.6 - Let Statements Systems of Equations Notes

Write Let Statements and an Expression or Equation in either form.

$$ax + by = c$$

$$y = mx + b$$

A person has some Loonies.

A person has some Nickels and Dimes.

A person has 24 Total coins in Dimes and Quarters.

A person has 16 Total coins in Nickels and Pennies.

A person has some Nickels. How much do they have in Nickels?

A person has Quarters and Dimes. How much money do they have?

A person has Dimes and Quarters worth \$4.50.

A person has loonies and toonies worth seven dollars.

Ben has read 40 books and reads three books per year.

A person deposits two dollars per day into a bank account with \$100 in the account to start.

The Cost of a truck is \$250 per month plus \$0.2 per kilometer.

An Bird swoops down at 5 meters per second from a height of 2000 meters.

M10 - 9.6 - Coin Solve Systems of Equations Notes

A person has 16 total coins of Dimes and Loonies worth \$8.80, How many Dimes and Loonies do they have?

A person has 22 total coins of Quarters and Dimes worth \$5.20, How many Quarters and Dimes do they have?

A person spends \$17.40 on 12 kg of bulk Candy at \$1.20/kg and \$1.80/kg? How much did they spend on each?

M10 - 9.6 - Investment/Weights WS

Mark invests a total of \$2800 in a 12% bond and an 8% bond earning \$288. How much did he invest in each?

Marie invests a total of \$3400 in a 9% bond and an 11% bond earning \$366. How much did she invest in each?

M10 - 9.6 - Wind and Current WS

A boat took 3 hrs to travel 24 km with a current and 5 hrs to return. What is the speed of the boat in still water?

A plane travels 780 km in 4 hours with a headwind. It takes 3 hours to return with a tailwind. What is the wind speed?

M10 - 9.6 - $y=mx+b$ Equations

Joe has 2 dollars in the bank and deposits 3 dollars per day. Mary has 12 dollars in the bank and spends 2 dollars per day. Find the intersection and state its meaning.

One cell phone company charges \$40 per month and five dollars a gigabyte of data. Another cell phone company charges \$20 per month and \$10 a gigabyte of data. Find the intersection and state its meaning.

Joe has 1 dollars in the bank and deposits 2 dollars per day. Mary has 4 dollars in the bank and spends 1 dollars per day. Find the intersection and state its meaning.

One car company sells a car for \$50,000 and depreciate at five dollars per year. Another car company sells cars for \$80,000 and depreciate that \$10,000 per year. Find the intersection and state its meaning.