Coin Problems

Coins:

Name	Value (cents)	Value (dollars)
Penny	1	0.01
Nickel	5	0.05
Dime	10	0.10
Quarter	25	0.25
Loonie	100	1.00
Toonie	200	2.00

Practice:

1) A man has two more nickels than dimes, and has $1.15 in total. How many coins of each kind does he have?

2) A girl has two more nickels than dimes, and three more quarters than nickels, having in all $3.35. How many coins of each kind does she have?

3) A purse contains 21 coins, consisting of nickels and dimes. How many coins of each kind does it contain if their total value is $1.65?

4) A safe contains 120 coins, the value of which is $10. If the coins consist of nickels and dimes, how many of each kind are in it?

5) A sum of $14 is made of 92 coins, consisting of dimes and quarters. How many are there of each kind of coin?

6) The value of some nickels and quarters is $1.60. If there are one-third as many nickels as quarters, how many nickels are there?

7) A boy's coins, consisting of nickels and dimes, amount to 42.15. If the number of dimes exceeds 3 times the number of nickels by 4, find the number of each kind of coin.

8) A newsboy had $2.65, consisting of nickels, dimes and quarters. If the number of dimes exceeded the number of nickels by 1, and the number of quarters was equal to the number of nickels decreased by one, what was the number of each kind of coin?

9) Donna and Pat bought a used car together for $450. If Donna paid $110 more than Pat, how much did each pay?

10) A student bought a 10-speed bike on sale for $92. She paid for the bike in $10 bills and toonies. If the number of $10 bills exceeds the number of toonies by 2, how many of each did she use?

11) Two groups of people entered a Drive-In restaurant. The first group ordered 6 hamburgers and 5 orders of french fries, and paid $4.55. The second group ordered 10 hamburgers and 6 orders of french fries and paid $7.00. How much would you have to pay for one hamburger and one order of french fries?

12) A restaurant bill of $2.85 was paid using quarters and dimes only. If twice the number of quarters is 6 less than 4 times the number of dimes, how many quarters were used?

13) The local store is running a special on bacon and eggs. If one of your neighbours paid $30 for 10 kg of bacon and 3 dozen eggs, and another neighbour paid $48 for 20 kg of bacon and 2 dozen eggs, what should you pay for 7 kg of bacon and 4 dozen eggs?

14) Mrs. Robinson cashed a cheque for $500 in five and ten dollar bills. The teller gave her 60 bills. How many five-dollar bills did she receive?

15) Each adult paid 75 cents and each student paid 50 cents at the school play. A total of 750 people attended. How many adults attended if the receipts totaled $437.50?

16) Bob and Kevin bought a lottery ticket and won $100 000. Since they paid different amounts for the winning ticket, Bob received $10 000 more than two times what Kevin received. How much did each person receive?

17) An engineering consultant is paid $0.18/km for in-city trips and $0.16/km for long distance trips. At the end of the month the consultant received $131.40 for trips. How many km did the consultant travel on long distance trips if the total distance travelled was 780km?

18) If 10 kg of nails and 2 hammers cost $15.50, and 3 kg of nails and 1 hammer cost $7.35, how much do nails cost per kilogram? How much is one hammer?

Answers:

1. 9, 7
2. 7, 5, 10
3. 9, 12
4. 40,80
5. 60,32
6. 2, 6
7. 5,19
8. 6,7,8
9. Donna 280, Pat 170
10. 8 - $10, 6 - $2
11. $0.80
12. 9
13. $26.70
14. 20
15. 250
16. Kevin $30000, Bob 450
17. 450
18. nails $0.20/kg, hammer $6.75