Coin Problems

Ben had three times as many nickels as dimes. If the total value of his coins was $1, how many of each kind of coin did he have? 12 nickels ; 4 dimes

A piggy bank contained $14.55 in quarters, dimes and nickels. If there were three more than twice as many dimes as nickels and three less than three times as many quarters as nickels, how many of each kind of coin was in the piggy bank? 15 nickels; 33 dimes; 42 quarters

Brian had 5 times as many quarters as dimes. If the total value of her coins was $16.20, how many of each kind of coin did she have? 60 quarters ; 12 dimes

Jenny received $6.10 in tips one afternoon. All of her tips were in quarters, dimes and nickels. There were five less dimes than quarters and seven less nickels than dimes. How many of each kind of coin was there? 13 dimes; 6 nickels; 18 quarters

5. Grant's change rack contained $8.80 in quarters, dimes and nickels. There were two more than five times as many nickels as quarters and four less than twice as many dimes as quarters. How many of each kind of coin was there in the change rack? 13 quarters; 22 dimes ; 67 nickels

The length of the sides of a triangle are consecutive odd integers. Find the length of the longest side if it is 20 units shorter than the perimeter. longest side is 13 units

7. The length of a rectangle is five less than twice the width. If the perimeter is 26cm. Find the rectangles dimensions. Width = 6 cm
length = 7cm

8. The sum of two consecutive even integers is 126. Find the integers.
62, 64

9. The length of a rectangle is three times as long as its width. The perimeter is 56 cm more than the width. Find the rectangles dimensions.
width = 8cm
length = 24 cm

Textbook

1. $(5, 7)$

2. $(6, -2)$

3. $(-4, -2)$

4. $(-4, 5)$

5. $(-8, 0)$

6. $(2, 6)$

7. $x + y = 8$
$6x + 5y = 45$; 5 jars of jam, 3 packages of bread mix

8. $(-5, 0)$

9. infinitely many solutions; all points on the line $y = \frac{3}{2}x - \frac{1}{2}$

10. no solution

11. $x = -4$