Answers (equations may vary)

1. 24oranges,28 apples; x+(x+4)=52,x=oranges

2. Cleo230miles,Thu 290miles; x+(x+60)=520,x=Cleo

3. 42,84; x+2x=126, x=short piece

4. 6.7 kg.; x+5x=8, x=weight of bucket

5. 15,35; 2x+2(2x+5)=100,x=width

6. 12,35; 2x+2(3x−1)=94,x=width

7. 45,46,47;x+(x+1)+(x+2)=138 x = first number

8. 154,156,158; x+(x+2)+(x+4)=468 x = first number

9. 25,12.5,19.5;x+2x+(x+7)=57 x = second side

10. 20,36,30; x+(2x−4)+(x+10)=86 x = smallest side

11. 200 adult, 230 students; 5x + 2(x + 30) = 1460, x = adult tickets

12. 130 single, 180 couple; 10x + 15(x + 50) = 4000 , x = “singles” tickets

13. 7 nickels, 14 dimes, 12 quarters; 0. 05x + 0.10(2x) + 0. 25(x + 5) = 4. 75, x = nickels

14. 12 nickels, 15 dimes, 30 quarters; 0. 05x + 0.10(x + 3) + 0. 25(2x + 6) = 9. 60, x = nickels

15. $1250; x + 0.08x = 1350 16. 10,200; x + 0.075x = 10, 965 x = amount invested x = original value of her fund

16. $10200; 1.075$x$ = 10965, x = amount invested