Name:

Algebra

Review (2.4 – 2.7)

**Solve each problem using the five-step plan to help**

1. The sum of 8 and three times a number is 128. Find the number.

2. Four less than half a number is 15. Find the number.

3. Six less than two thirds of a number is 18. Find the number.

4. Find three consecutive odd integers whose sum is 87.

5. Find four consecutive odd integers whose sum is 144.

**Solve using the five-step plan. A choice of possible numbers for one unknown is given**

6. In the chorus there are 12 more girls than boys. There are 32 students in the chorus. How many boys? How many girls? Choices for the number of boys: 8, 10, 12

7. There were twice as many four-door cars as two-door cars in the parking lot. There were 36 cars in the lot. How many had four doors? How many had two doors? Choices for the number of four-door cars: 12, 18, 24

**Solve each problem using the two given facts**

8. Find the total weight of the boxes of cheddar cheese in a shipment of 3 lb boxes of cheddar cheese and 2 lb boxes of swiss cheese. There were 20 fewer boxes of swiss cheese than 3 lb boxes of cheddar cheese. The total weight of the shipment was 510 lb.

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Solve the given formula for the indicated variable**

9. b = 2b + y; y 10. A = 1/2h(b + c); h

11. A = P + Prt; r 12. a = 2(l + w); l

13. C = 5/9(F – 32)