Worksheet 3.4 Number Story Questions

Provide full solutions for the following Story Questions.

1. Two times a number, increased by 3, is 85. Find the number.

2. Seven times a number, decreased by 11, is 129. Find the number.

3. Tom is three times as old as David and the sum of their ages is 52. Find their ages.

4. Pete is twice as old as Mary. Seven years ago then sum of their ages was 31. Find their ages.

5. The length of a rectangle is 4 m longer than the width. If the perimeter of the rectangle is 128 m, what are the dimensions of the rectangle?

6. Find three consecutive integers whose sum is 246.

7. Frank is eight years older than his sister. In three years he will be twice as old as she is. How old are they now?

8. Find five consecutive integers whose sum is -115.

9. Dave has six times as much money as Fred and Bill has three times as much as Fred. Together they have $550. How much does each have?

10. One-half of John's age two years from now plus one-third of his age three years ago is 20. How old is John?

11. In a certain isosceles triangle, to find the length of one of the equal sides you must double the base and subtract 3 cm. If the perimeter of the triangle is 79 cm, what are the dimensions of the triangle?

12. The Nile River is 395 km longer than the Amazon River.   The sum of their lengths is 12983 km. How long is the Nile?

Answers:
1. 41   **2.** 20   **3.** 13 and 39 **4.** 15 and 30   **5.** w = 30 m and l = 34 m **6.** 81, 82, 83
7. 5 and 13   **8.** -25,-24,-23,-22,-21   **9.** Fred has $55, Dave has $330 and Bill has $165 **10.** 24
11. equal sides are 31 cm **12.** Amazon = 6294 km and Nile = 6689 km