



By @ of @ 3.4 Solutions 11. Let b, 25-3 represent the length of the base of the triangle and the length of the equal sides (cm). up b + 2(2b-3) = 79b + 4b - 6 = 795b - 6 = 79+6 +6 56-85 5 5 2(17)-3 = 34-3 :, the base is 17cm, the equal sides are 31cm. Let a at 395 represent the lengths of the Amazon River, the Nile River in Km (set up 12. a + (a + 395) = 129832a+395=12983 - 395 - 395 2a = 12588 a=6294 94395 =6294+395 = 6689 1. the Amazon is 6294 km long, Nile is 6689 km long. the

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

11. equal sides are 31 cm 12. Amazon = 6294 km and Nile = 6689 km

^{7. 5} and 13 8. -25,-24,-23,-22,-21 9. Fred has \$55, Dave has \$330 and Bill has \$165 10. 24