

Translating a sentence into a multi-step equation: Worksheet 8.1

Name Date Score

1. 18.06 was divided by a number, then 4.9 was taken from the quotient. Afterwards, this difference was multiplied by 2. Giving a product of -27. Find the number.
2. 115.83 was divided by some number, then added to 12.1. Next, this sum was multiplied by 2, which gave a product of 47.6. Find this number.
3. A number was subtracted from 6 and that difference was then divided by 17. After which, the quotient was multiplied by 7. This product was 7. What was the number?
4. Some number was divided by 26. This quotient was then multiplied by 8, after which the resulting product was added to 15. Given this sum totaled to -1, find the initial number.
5. First, 120 was divided by some number. The resulting quotient was then multiplied by 4. Following this, 8 was subtracted from the product, giving 32. What was the initial divisor?
6. 14 was divided by a number. This quotient was then multiplied by 6, and 8 was taken from that product. If the previous operation resulted in -2, find the initial number.
7. A certain number was multiplied by 7. Then, this product was divided by 2.8. Finally, 5.8 was subtracted from this quotient, resulting in a difference of -29.8. What was this number?
8. 6 was added to a certain number. This sum was then divided by 3. Finally, the quotient was multiplied by 5. This product came out to 15. What was the number?
9. Some number was added to 7.3. This sum was then divided by 0.9. Finally, the quotient was multiplied by 8. The product was 168. What was the number?
10. 9.7 was subtracted from a number. Then, that difference was multiplied by 3, after which that result was divided by 2.4. If the result of that division is 3, then what was the initial number?



Solutions: Worksheet 8.1

1. 2.1
2. 9.9
3. -11
4. 52
5. 12
6. -14
7. -9.6
8. 3
9. 11.6
10. 12.1

