

Translating a sentence into a multi-step equation: Worksheet 8.3

Name Date Score

1. 11 was divided by a number. This quotient was then multiplied by 6, and 5 was taken from that product. If the previous operation resulted in 1, find the initial number.
2. A number was divided by 3 and then 10 was taken away from that quotient. Finally, this difference was multiplied by 6. Given the product was -54, what was that number?
3. One number was divided by 9, followed by this quotient being multiplied by 4. Next, the product was added to 9. The total sum was 13, so what was the first divisor?
4. 63 was divided by some number, then added to 4. Next, this sum was multiplied by 6, which gave a product of 78. Find this number.
5. A certain number was multiplied by 6. Then, this product was divided by 22. Finally, 8 was subtracted from this quotient, resulting in a difference of -5. What was this number?
6. First, 105 was divided by some number. The resulting quotient was then multiplied by 3. Following this, 5 was subtracted from the product, giving 40. What was the initial divisor?
7. 7 was multiplied by a number. Then, the product was divided by 14. Finally, 3 was added to this quotient, giving 7. State the initial number.
8. Some number was divided by 5. After which, the quotient is added to 2. Next, the sum is multiplied by 6, which resulted in 18. Given this product, find the initial number.
9. 9 was added to some number. This sum was then multiplied by 4, and that product was then divided by 16 for a result of 4. Given this, what was the initial number?
10. A number was subtracted from 12 and that difference was then divided by 4. After which, the quotient was multiplied by 3. This product was 6. What was the number?



Solutions: Worksheet 8.3

1. 11
2. 3
3. 9
4. 7
5. 11
6. 7
7. 8
8. 5
9. 7
10. 4

