Chapter 11: Logical Reasoning

1. What number has 9 ten thousands, 2 fewer thousands than ten thousands, 4 fewer hundreds than thousands, no tens, and 3 more ones than tens?

2. What number has 2 hundred thousands, 3 more ten thousands than hundred thousands, 2 fewer thousands than hundred thousands, no hundreds, 5 more tens than hundred thousands and 4 fewer ones than tens.

3. What number has 5 hundred thousands, 3 more ten thousands than hundred thousands, 7 fewer thousands than ten thousands, 2 more hundreds than thousands, 3 more tens than hundreds and no ones.

4. What number has 8 ten thousands, 2 fewer thousands than ten thousands, no hundreds, 5 more tens than hundreds, and 3 more ones than tens.

5. What number has 5 hundred thousands, 3 more ten thousands than hundred thousands, no thousands, 5 more hundreds than thousands, 2 more tens than thousands and 5 more ones than tens.

6. What number has 3 ten thousands than hundred thousands, 5 more thousands than ten thousands, 6 fewer hundreds than thousands, no tens and 4 more ones than hundreds.

Find two numbers based on their sum and difference.

1. The sum of two numbers is 15. The difference of the two numbers is 11. What are the numbers?

2. The difference of two numbers is 4. The sum of the two numbers id 20. What are the two numbers?

3. The sum of two numbers is 14, and their difference is 2. What are the two numbers?

4. The difference of two numbers is 4. Their sum is 16. What are the two numbers?

Find two numbers based on sum, difference, product, and quotient.

1. The quotient of two numbers is 10, and their difference is 9. What are the two numbers?

2. The quotient of two numbers is 3. The product of two numbers is 12. What are the numbers?

3. The product of two numbers is 3. Their difference is 2. What are the two numbers?

4. The product of two numbers is 90, and their sum is 19. What are the two numbers?

5. The quotient of two numbers is 4. Their product is 16. What are the two numbers?

6. The quotient of two numbers is 4. The sum of the two numbers is 10. What are the two numbers?

7. The quotient of two numbers is 5. The product of two numbers is 80. What are the two numbers?

8. The sum of two numbers is 20. Their product is 100. What are the two numbers?

Read the following questions and answer.

1. The opal pendant is more expensive than the emerald necklace but less expensive than diamond ring. Which piece of jewellery is the most expensive?

2. The library is shorter than the shopping mall but taller than the courthouse. Arrange the height of the building from tallest to shortest.

3. The blue team scored more points than the red team but fewer points than green team. Which team scored the most points?

4. Jane runs faster than Dina. Dina runs faster than Angie. Who runs the slowest?

5. Jack has fewer crayons than Erica but more crayons than Reena. Arrange the most crayons to the least crayons.

6. Chris drove a longer distance than Claire. Claire did not drive a longer distance than Christine. Who drove the shortest distance?

7. Amy is younger than Keith and Keith is younger than Keisha. Arrange the youngest to the eldest.

8. The white dog is larger than a black dog. The black dog is not smaller than the brown dog. Which dog is the largest?