

Arithmetic Properties: Practice Activity

Directions: Read and answer the following questions to assess your knowledge of arithmetic properties.

- 1. Look at this number: 3,042,567
 - a. What is the place value of the 4 in this number?
 - b. Which digit of this number is in the hundreds spot?
- 2. Consider this number: 5,089,321
 - a. What is the place value of the 5 in this number?
 - b. What digit of this number is in the thousands spot?
- 3. Consider this number: 8,763,214
 - a. What is the place value of the 1 in this number?
 - b. What digit of this number is in the millions spot?
- 4. Bonus: If the place values go "ones, tens, hundreds, thousands, ten thousands, hundred thousands, millions..." what two places come next?
- 5. Solve this expression using the order of operations: $(3+4) \times (5-3)$
- 6. Solve this expression using the order of operations: $(5x7^2) \div (0+5)$
- 7. Solve this expression using the order of operations: $2(6x8^2)^2$
- 8. Is 3.8 rational or irrational?
- 9. Is $\sqrt{(2 \div 5)}$ rational or irrational?
- 10. Is -5 rational or irrational?
- 11. Is π rational or irrational?
- 12. Is 0.30300300003 rational or irrational?



- 13. Is 4/5 rational or irrational?
- 14. Is $\sqrt{8}$ rational or irrational?
- 15. Is -4 rational or irrational?
- 16. What arithmetic property is this? 6 x (%) = 1
- 17. What arithmetic property is this? 7(5+4) = 63Hint: $(7 \times 5) + (7 \times 4)$ is one way to solve this. Why? (what property is used)
- 18. What arithmetic property is this? $(3 \times 4) \times 2 = 3 \times (4 \times 2)$
- 19. What arithmetic property is this? 2 + 0 = 2
- 20. What arithmetic property is this? $4 \times 5 = 5 \times 4$



Answers

- 1. Look at this number: 3,042,567
 - a. Ten thousands
 - b. 5
- 2. Consider this number: 5,089,321
 - a. Millions
 - b. 9
- 3. Consider this number: 8,763,214
 - a. Tens
 - b. 8
- 4. Ten millions, hundred millions
- 5. (3+4) x (5-3)
 - a. $(3+4) \times (5-3)$
 - b. (7)x(2)
 - c. <u>14</u>
- 6. $(5x7^2) \div (0+5)$
 - a. $(5x7^2) \div (0+5)$
 - b. $(5x49) \div (0+5)$
 - c. $(5x49) \div (5)$
 - d. $(245) \div (5)$
 - e. <u>49</u>
- 7. $2(6x8^2)^2$
 - a. $2(6x8^2)^2$
 - b. $2(6x64)^2$
 - c. $2(384)^2$
 - d. 2(147456)
 - e. 294912
- 8. Rational
- 9. Irrational



10. Rational

18. Associative property

20. Commutative property

19. Identity property

11. Irrational
12. Irrational
13. Rational
14. Irrational
15. Rational
16. Inverse property
17. Distributive property