Name the sets of numbers to which each of the following numbers belongs.

| 1) -3 | 2) 7 | 3) 9/11 | 4) $\sqrt{25}$ | 5) 0 | 6) 7.78 |

| R, Q, Z | R, Q, Z, W, N | R, Q | R, Q, Z, W, N | R, Q, Z, W | R, Q |

| 7) $\sqrt{17}$ | 8) 5.875 | 9) 3.316624... | 10) -15 | 11) 24 |

| R, I | R, Q | R, I | R, Q, Z | R, Q, Z, W, N |

Identify the property of real numbers illustrated in each problem.

| 12) $31(1) = 31$ | 13) $17 + 5 = 5 + 17$ | 14) $12 + (-12) = 0$ |

| Multiplicative Identity | Commutative (+) | Additive Inverse |

| 15) $5(7 \cdot 8) = (5 \cdot 7)8$ | 16) $71(5 + 21) = 71(5) + 71(21)$ |

| Associative (X) | Distributive |

| 17) $29 + 0 = 29$ | 18) $(19/11)(11/19) = 1$ | 19) $13(7) = 7(13)$ |

| Additive Identity | Multiplicative Inverse | Commutative (X) |

| 20) $17 + (13 + 41) = (17 + 13) + 41$ | 21) $3(24 \cdot 19) = (3 \cdot 24)19$ |

| Associative (+) | Associative (X) |

| 22) $8 \div 24 = 24 \div 8$ | 23) $(-2/5) + (2/5) = 0$ | 24) $(-7/3)(-3/7) = 1$ |

| Not a Property | Additive Inverse | Multiplicative Inverse |

Explain the meaning of the following operations.

25) $12 + 53$ - A group of 53 added to a group of 12.

26) 9×12 - 9 groups of 12 added together.

27) 8^5 - 5 groups of 8 multiplied together.

28) $76 - 44$ - A group of 44 taken from a group of 76.

29) $48 \div 8$ - 48 divided into groups of 8 or 8 groups.

30) Why is 48 ÷ 8 defined? 48 can be divided into 6 groups of 8. There is a set answer.

31) Why is 6 ÷ 0 undefined? No number of groups of zero add to 6.

32) Why is 0 ÷ 0 undefined? Any number of groups of zero add to zero.