62. a) If the departments share the equipment, then the maximum number of each type is all that is required, so we want to take the union of the multisets, $A \cup B$.
b) Both departments will use the minimum number of each type, so we want to take the intersection of the multisets, $A \cap B$.
c) This will be the difference $B - A$ of the multisets.
d) If no sharing is allowed, then the university needs to purchase a quantity of each type of equipment that is the sum of the quantities used by the departments, this is the sum of the multisets, $A + B$.

64. Taking the maximum for each person, we have $S \cup T = \{(0.6, \text{Alice}), (0.9, \text{Brian}), (0.4, \text{Fred}), (0.9, \text{Oscar}), (0.7, \text{Rita})\}$.

SECTION 2.3 Functions

2. a) This is not a function because the rule is not well-defined. We do not know whether $f(3) = 3$ or $f(3) = -3$. For a function, it cannot be both at the same time.
b) This is a function. For all integers n, $\sqrt{n^2+1}$ is a well-defined real number.
c) This is not a function with domain $\mathbb{Z}$, since for $n = 2$ (and also for $n = -2$) the value of $f(n)$ is not defined by the given rule. In other words, $f(2)$ and $f(-2)$ are not specified since division by 0 makes no sense.

4. a) The domain is the set of nonnegative integers, and the range is the set of digits (0 through 9).
b) The domain is the set of positive integers, and the range is the set of integers greater than 1.
c) The domain is the set of all bit strings, and the range is the set of nonnegative integers.
d) The domain is the set of all bit strings, and the range is the set of nonnegative integers (a bit string can have length 0).

6. a) The domain is $\mathbb{Z}^+ \times \mathbb{Z}^+$ and the range is $\mathbb{Z}^+$.
b) Since the largest decimal digit of a strictly positive integer cannot be 0, we have domain $\mathbb{Z}^+$ and range $\{1, 2, 3, 4, 5, 6, 7, 8, 9\}$.
c) The domain is the set of all bit strings. The number of 1's minus number of 0's can be any positive or negative integer or 0, so the range is $\mathbb{Z}$.
d) The domain is given as $\mathbb{Z}^+$. Clearly the range is $\mathbb{Z}^+$ as well.
e) The domain is the set of bit strings. The range is the set of strings of 1's, i.e., $\{\lambda, 1, 11, 111, \ldots\}$, where λ is the empty string (containing zero symbols).

8. We simply round up or down in each case.
a) 1 b) 2 c) -1 d) 0 e) 3 f) -2 g) $\lfloor \frac{1}{2} \rfloor + 1 = \lfloor \frac{1}{2} \rfloor = 1$
h) $\lceil 0 + 1 + \frac{1}{2} \rceil = \lceil \frac{3}{2} \rceil = 2$

10. a) This is one-to-one. b) This is not one-to-one, since 0 is the image of both 0 and 1.
c) This is not one-to-one, since a is the image of both a and d.

12. a) This is one-to-one, since if $m_1 - 1 = m_2 - 1$, then $m_1 = m_2$.
b) This is not one-to-one, since, for example, $f(3) = f(-3) = 10$.
c) This is one-to-one, since if $n_1^3 = n_2^3$, then $n_1 = n_2$ (take the cube root of each side).
d) This is not one-to-one, since, for example, $f(3) = f(4) = 2$.

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