Lesson 3

Problem Set

1. a. 28; 2 ones and 8 tenths disks drawn; 2.8; 0.2

    b. 33; 3 ones and 3 tenths disks drawn; 3.3; 0.7

2. a. Answer provided

    b. Disks drawn appropriately

    $(1 \times 10) + (7 \times 1) + (5 \times \frac{1}{10}) = 17\frac{5}{10}$
    $(1 \times 10) + (7 \times 1) + (5 \times 0.1) = 17.5$

    c. Disks drawn appropriately

    $(2 \times 10) + (3 \times 1) + (2 \times \frac{1}{10}) = 23\frac{2}{10}$
    $(2 \times 10) + (3 \times 1) + (2 \times 0.1) = 23.2$

    d. Disks drawn appropriately

    $(7 \times 10) + (4 \times 1) + (7 \times \frac{1}{10}) = 74\frac{7}{10}$
    $(7 \times 10) + (4 \times 1) + (7 \times 0.1) = 74.7$

3. a. 3.9 plotted with endpoints 3 and 4; 3.9; $(3 \times 1) + (9 \times 0.1)$ or $(3 \times 1) + (9 \times \frac{1}{10})$

    b. 17.5; $17\frac{5}{10}$; $(1 \times 10) + (7 \times 1) + (5 \times \frac{1}{10})$ or $(1 \times 10) + (7 \times 1) + (5 \times 0.1)$; 0.5

    c. 74.7 plotted with endpoints 74 and 75; 74.7; $74\frac{7}{10}$; 0.3

    d. 22.2 plotted with endpoints 22 and 23; 22.2; $(2 \times 10) + (2 \times 1) + (2 \times 0.1)$ or

    $(2 \times 10) + (2 \times 1) + (2 \times \frac{1}{10})$; 0.8

    e. 80.8 plotted with endpoints 80 and 81; 80.8; $80\frac{8}{10}$; 0.2

Exit Ticket

1. 18; 1 one and 8 tenths disks drawn; 1.8; 0.2

2. a. 12.9 plotted with endpoints 12 and 13; 12.9; $(1 \times 10) + (2 \times 1) + (9 \times \frac{1}{10})$ or

    $(1 \times 10) + (2 \times 1) + (9 \times 0.1)$; 0.1

    b. 70.7 plotted with endpoints 70 and 71; $70\frac{7}{10}$; $(7 \times 10) + (7 \times \frac{1}{10})$ or $(7 \times 10) + (7 \times 0.1)$; 0.3

Homework

1. a. 14; 1 one and 4 tenths disks drawn; 1.4; 0.6

    b. 25; 2 ones and 5 tenths disks drawn; 2.5; 0.5

2. a. Answer provided

    b. Disks drawn appropriately

    $(5 \times 10) + (3 \times 1) + (7 \times \frac{1}{10}) = 53\frac{7}{10}$

    $(5 \times 10) + (3 \times 1) + (7 \times 0.1) = 53.7$

    c. Disks drawn appropriately

    $(3 \times 10) + (2 \times 1) + (3 \times \frac{1}{10}) = 32\frac{3}{10}$

    $(3 \times 10) + (2 \times 1) + (3 \times 0.1) = 32.3$

    d. Disks drawn appropriately

    $(8 \times 10) + (4 \times 1) + (8 \times \frac{1}{10}) = 84\frac{8}{10}$

    $(8 \times 10) + (4 \times 1) + (8 \times 0.1) = 84.8$

3. a. 4.6 plotted with endpoints 4 and 5; 4.6; $(4 \times 1) + (6 \times \frac{1}{10})$ or $(4 \times 1) + (6 \times 0.1)$; 0.4

    b. 24.5, $24\frac{5}{10}$; $(2 \times 10) + (4 \times 1) + (5 \times \frac{1}{10})$ or $(2 \times 10) + (4 \times 1) + (5 \times 0.1)$; 0.5

    c. 63.6 plotted with endpoints 63 and 64; 63.6; $63\frac{6}{10}$; 0.4

    d. 71.3 plotted with endpoints 71 and 72; 71.3; $(7 \times 10) + (1 \times 1) + (3 \times \frac{1}{10})$ or

    $(7 \times 10) + (1 \times 1) + (3 \times 0.1)$; 0.7

    e. 90.9 plotted with endpoints 90 and 91; 90.9; $90\frac{9}{10}$; 0.1