

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_

DSA  
Alternate Base Systems  
for Cross-Curricular Fun & Engineering Applications

HANDOUT FOR INDIVIDUAL WORK  
Level 1 – Counting and Grouping

On this paper each child will draw as the teacher asks:

1. One line:

2. Two lines:

3. Six lines:

4. Ten lines:

5. 12 lines:

7. On the backside of the paper children should fill the entire paper with drawn circles and then put the same number of lines in each circle.

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Think about the Dozenal-base system:

One, two, three, four, five, six, seven, eight, nine, dec, el, ten.

Notice that in order to count up to 10 in dozenals, we must include two extra numbers, Dec and El. Mathematicians have agreed to call the two extra Dozenal numbers Dec and El.

Nobody has ever decided which symbols we should use for Dec and El. Maybe you can help.

Below, please make up your own shapes for the two extra Dozenal numbers, Dec and El.

Draw them next to their names: DEC and EL

When you're done, look at all the Decs and Els you drew and then circle the two you like best--- one for each number, Dec and El.

DEC

EL