Dr. Taylor's Pedagogical Notes

— DIVIDING WHOLE NUMBERS —

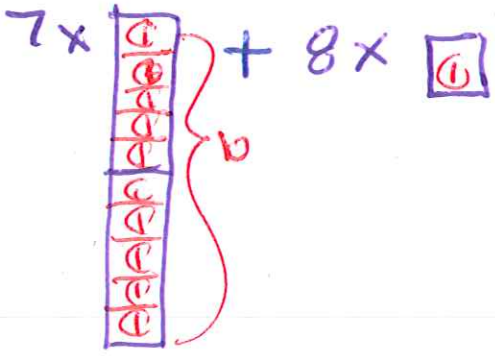
HOW MANY IS: $78 \div 3$

① WE WILL USE "STRIP DIAGRAMS" HERE BUT THEY COULD EASILY BE SUBSTITUTED FOR "CUISENAIRE RODS" TO PROVIDE A MORE CONCRETE APPROACH.

$78 = 70 + 8 = 7 \times 10 + 8 \times 1$

② WE SHALL "DECOMPOSE" 78 INTO SOME "FRIENDLY" NUMBERS, THEN THINK ABOUT HOW THOSE COULD BE FURTHER UNPACKED.

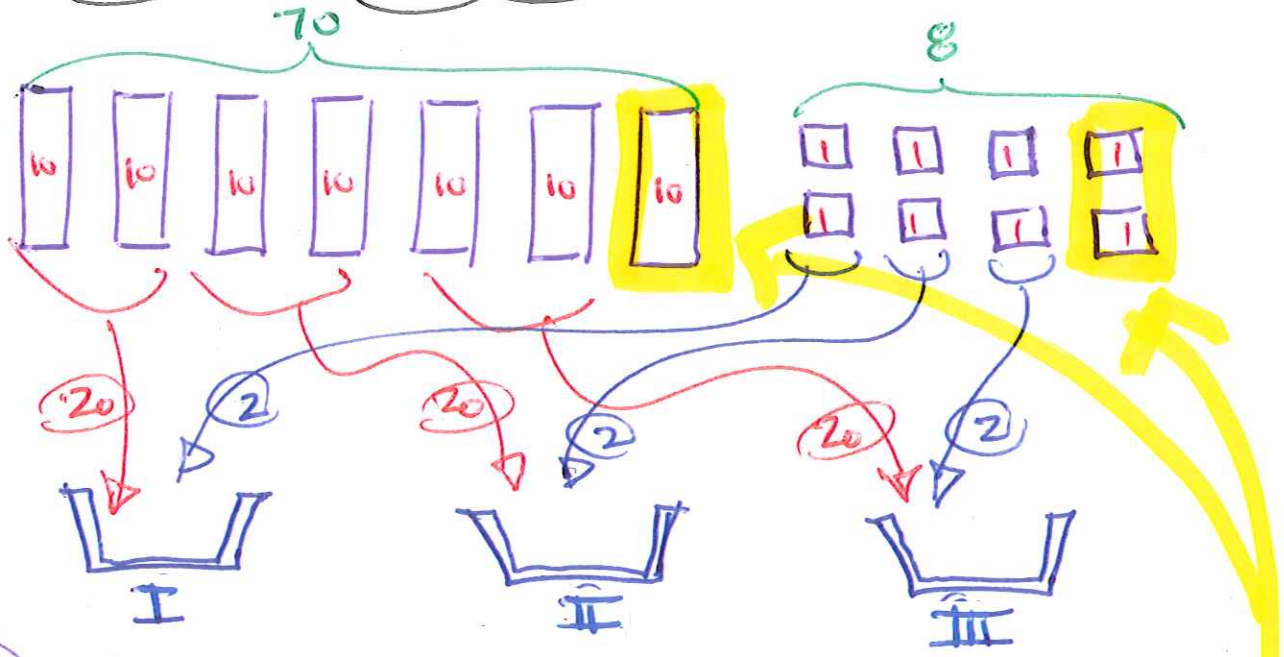
③ NOW WE SHALL DRAW OUR STRIPS FOR ANALYSIS:



④ NEXT WE MUST CONSIDER HOW TO EVENLY DISTRIBUTE THESE INTO 3 GROUPS

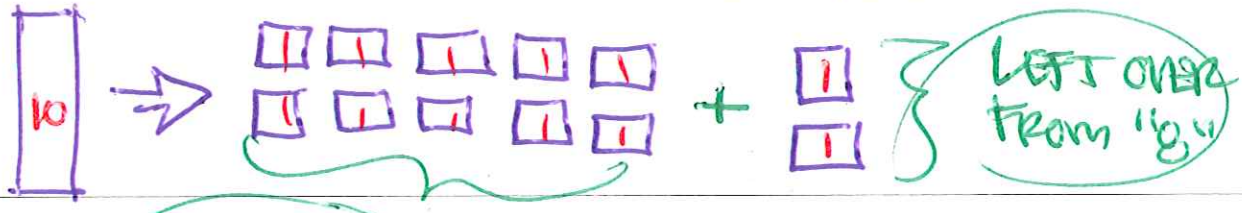
Dr. Taylor's Pedagogical Notes

78 ÷ 3 CONTINUED...



(5) AFTER WE PARTITION & DISTRIBUTE THE "EASY" PIECES INTO THE "3" CONTAINERS, WE EXAMINE WHAT IS "LEFT OVER".

(6) HERE WE SEE THE NECESSITY TO "DECOMPOSE" THE 10 INTO UNITS 1 AND FINISH OUR DISTRIBUTION



LEFT OVER FROM "70"

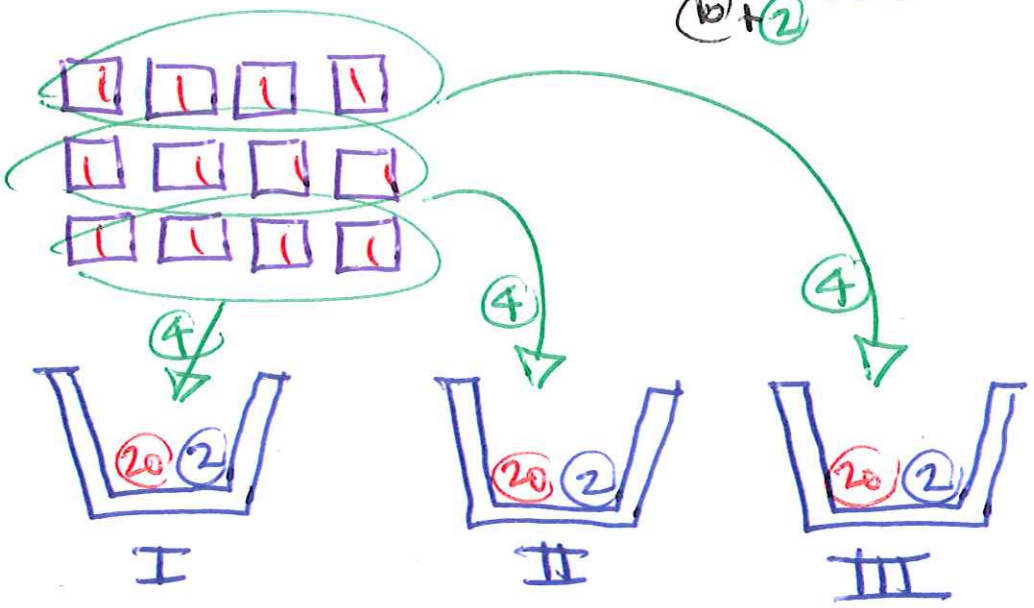
Dr. Taylor's Pedagogical Notes

$78 \div 3$ CONTINUED . . .

(7) NOW WE CAN SEE THAT EACH OF THE 3 CONTAINERS HAVE "22" INSIDE THEM, BUT WE MUST FINISH OUR DISTRIBUTION OF THE REMAINING "12" . . .

$20 + 2$

$10 + 2$



(8) NOW WE CAN SEE EACH OF THE CONTAINERS HAVE A TOTAL OF $20 + 2 + 4$ IN THEM

FIRST DISTRIBUTION

SECOND DISTRIBUTION

FINAL ANSWER: $\boxed{26}$