

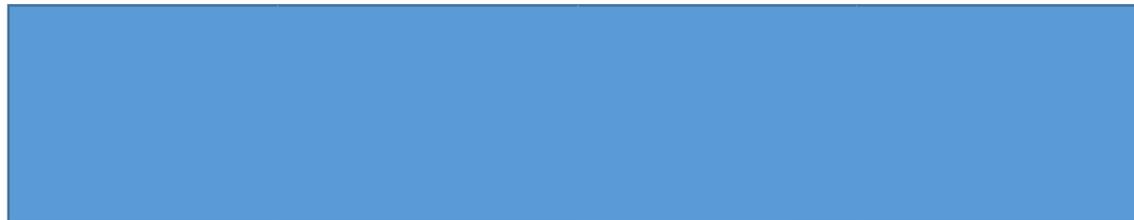
Modeling LOOONG Division

Performance Task

Task Card 1

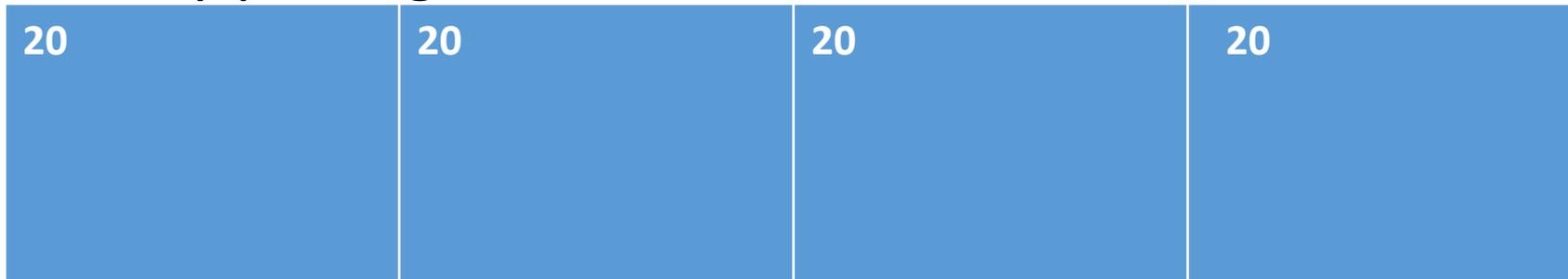
Get a strip of construction paper

- Your problem is: $145 \div 4$
- The value of the whole strip is 145.
- *If the value of the whole strip is 145, how many parts do we need to partition the strip into?* You should see that the strip needs to be partitioned into 4 parts. Now, fold the strip into fourths. Your strip should look like this:



Task Card 2

- *If the whole strip is 145 how much do we want to start partitioning into each fourth?* You should understand that each fourth will have an equal amount. (you are using partial quotients)
- Start by putting 20 into each box & subtract 80 from 145.



Task Card 4

(view task card 6 to see the subtraction piece)

Now, put 10 in each section. Now you subtract 40 from 54 and you have 25 left. How can you split 25 by 4?—put 6 into each group.

20 10	20 10	20 10	20 10
----------	----------	----------	----------

Task Card 5

20	20	20	20
10	10	10	10
6	6	6	6

Task Card 6

145

-80

65

-40

25

-24

1

Task Card 7

- After distributing each 6, you should have 1 left over. This is your remainder.
- What is your ***total quotient*** is for the equation $145 \div 4$?
- The Total Quotient for $145 \div 4$ is equal to *36 remainder 1* or $36\frac{1}{4}$ or 36.25

Task Card 8

Now, get more construction paper and you and your partner will do the same with the following problems:

$201 \div 3$

$467 \div 5$

$694 \div 4$

Now, you and your partner CONSTRUCT (level 5) 2 more division problems and solve them using models. Show how to solve your problems using more than one way.

Task Card 9

Now, instead of using strips to model a problem, you and your partner will draw them on paper.

$$423 \div 5$$

Solve together, by drawing the model below.



Task Card 10

You and your partner CONSTRUCT (level 5) 5 more long division problems and solve them using models on a piece of paper. If time permits, do each problem again, a DIFFERENT way using a model.

Make sure you have your own copy to turn in, as this will be a CW grade.