division using number machines
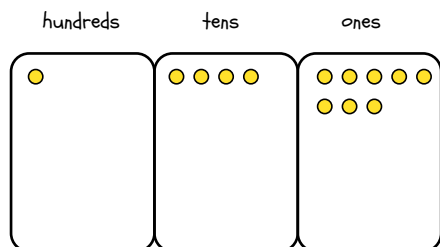
step 1

148 ÷ 4

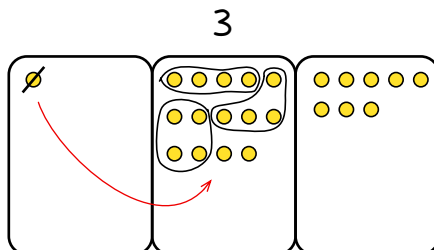we are starting with 148 in a number machine...
dividing by 4 means we are looking for groups of 4 dots...

hundreds   tens   ones

step 2

148 ÷ 4
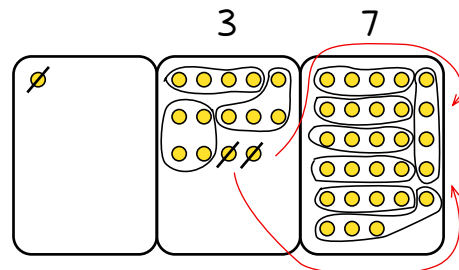
can't get a group of 4 ?
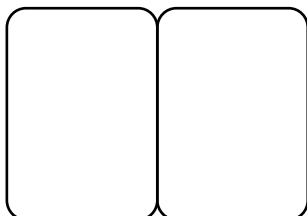exchange any 'spare' dots for 10 dots in the next place value (to the right) and begin counting the groups of 4....
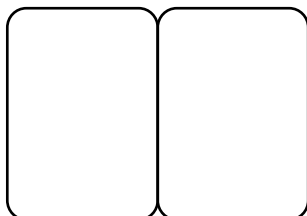
3

step 3

148 ÷ 4 = 37

if you have multiple dots left over in any place value then exchange each dot for another 10 dots in the next place value... again start to look for groups of 4 dots...
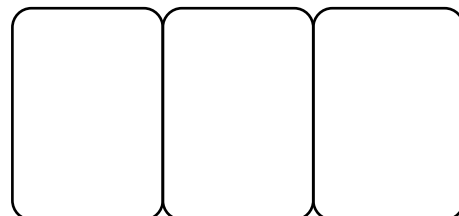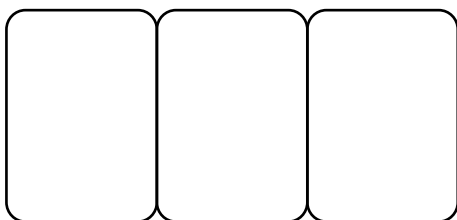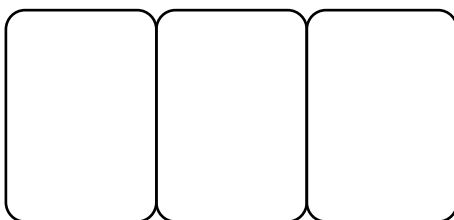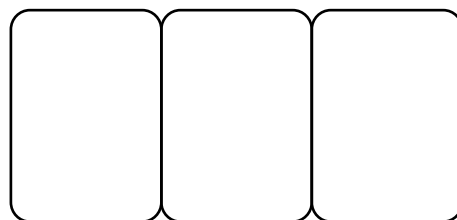
3   7

1. 42 ÷ 3

2. 64 ÷ 4

3. 342 ÷ 3

4. 225 ÷ 3

5. 138 ÷ 6

6. 938 ÷ 7

7. 2538 ÷ 6

8. 2370 ÷ 5