

Differentiated Learning (DL)

MATHEMATICS

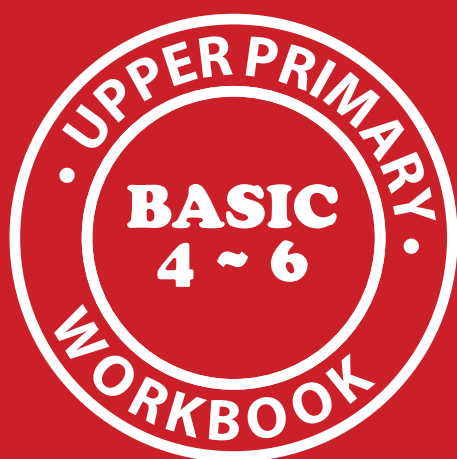
WORKBOOK

FOR UPPER PRIMARY



LEVEL
1

LEARNER'S WORKBOOK



Ghana Education
Service (GES)

unicef 
for every child

Differentiated Learning (DL)

*Mathematics Workbook for
Upper Primary*

Level 1

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ISBN XXX-XXXX-XXXX-X-X

Acknowledgement:

The Ministry of Education (MoE) and the Ghana Education Service (GES) gratefully acknowledge the immense contribution of the following people for the successful development of the DL Workbooks.

Writers:

Isaac Buabeng, Francis Martey Asare, Edward Mills, Eric Osei-Adofo, Reginald Quartey, Anita Cordei Collison

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MODULE 1

Counting and Representing Numbers

Activity 1A

Task 1

a. Circle the following numbers on the number chart.

30	55	71
40	15	2
96	13	

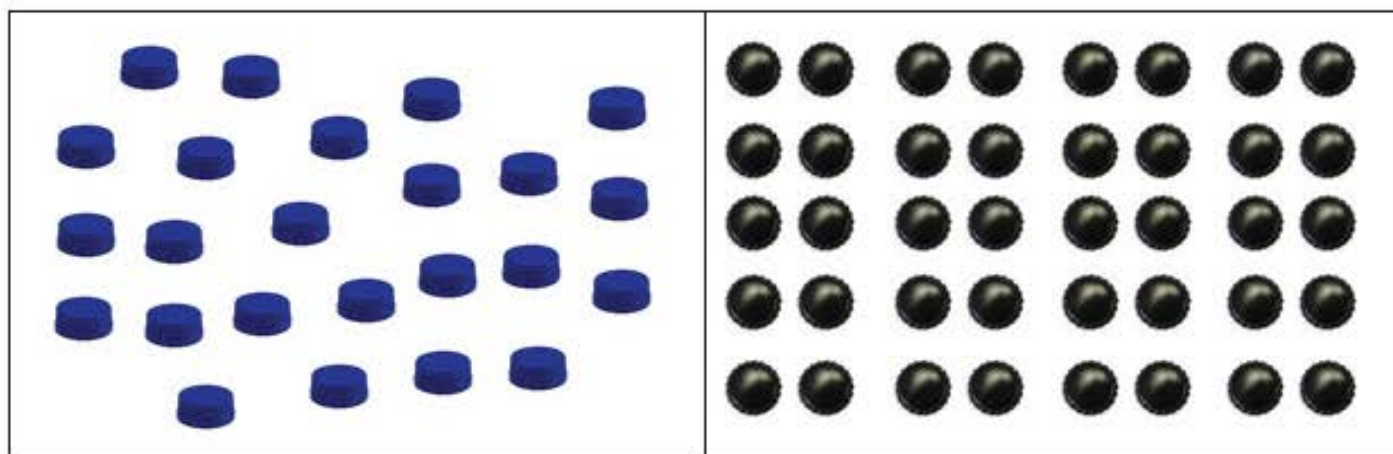
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

b. Complete the number chart.

1	2	3	4	5					

Task 2

- a. Count and write the number of items in each box.



- b. How many tens and how many ones are there?

Tens	Ones

- c. Cross out (x) to show the number 43.

Tens	Ones

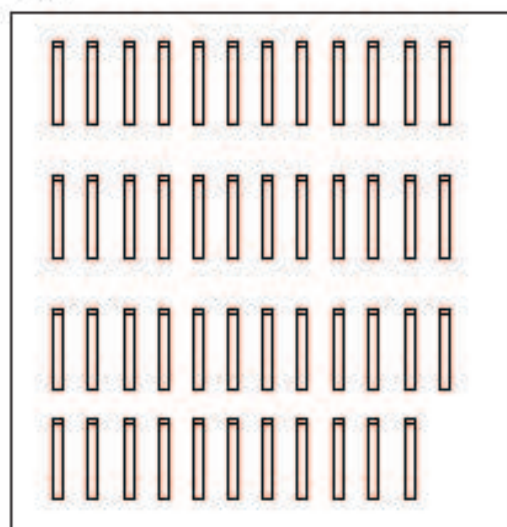
LESSON 2

Place value of 2-digit numbers

Activity 4A

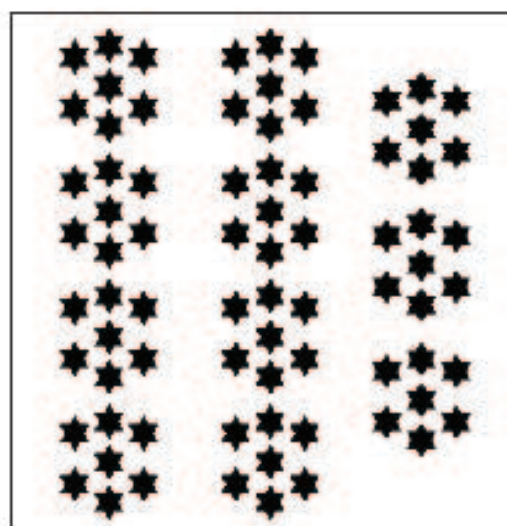
Task1: How many tens and ones can we make? Write the number in the chart.

a.



Tens	Ones

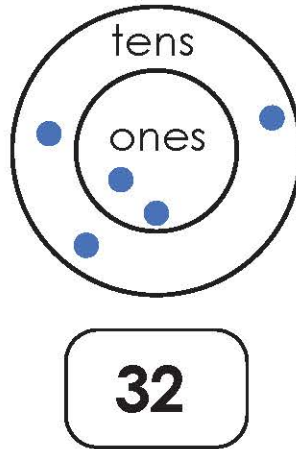
b.



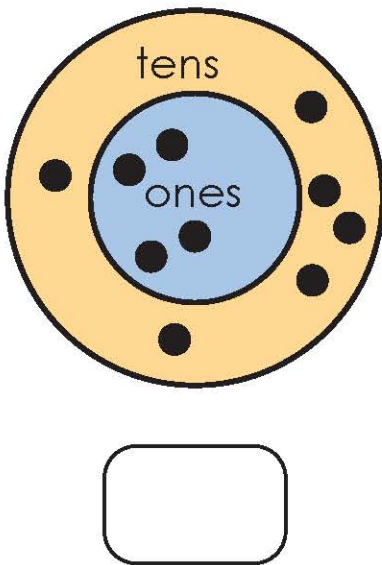
Tens	Ones

Task 2: What number does the wheel represent?

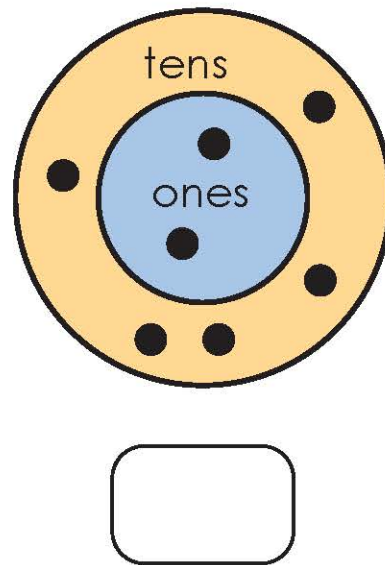
Example:



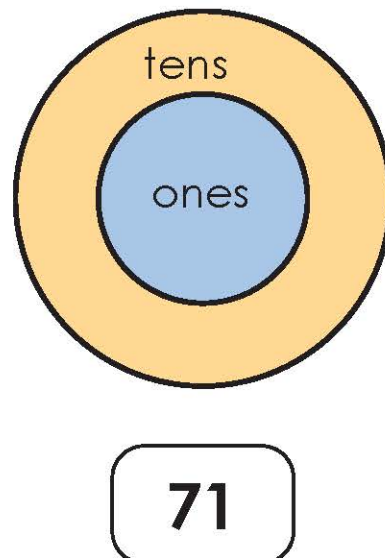
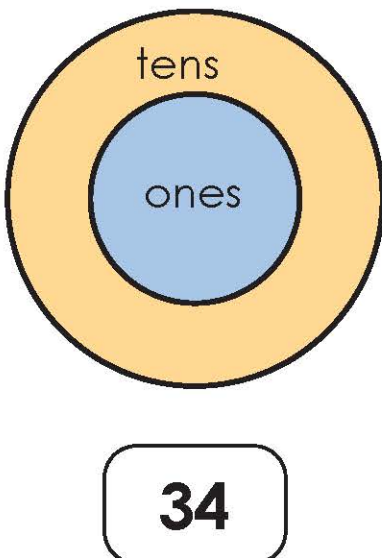
a.



b.



c. Draw pebbles (●) on the number wheel to show the given number.



LESSON 3

Comparing 2-digit numbers using $<$, $>$ or $=$

Activity 5A

Task1: Use $<$, $>$ or $=$ to compare the groups.

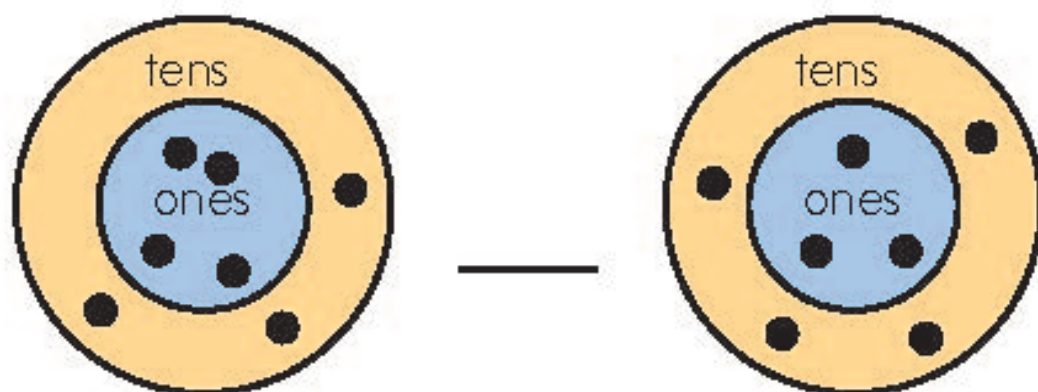
Example:



a.



b.



c.

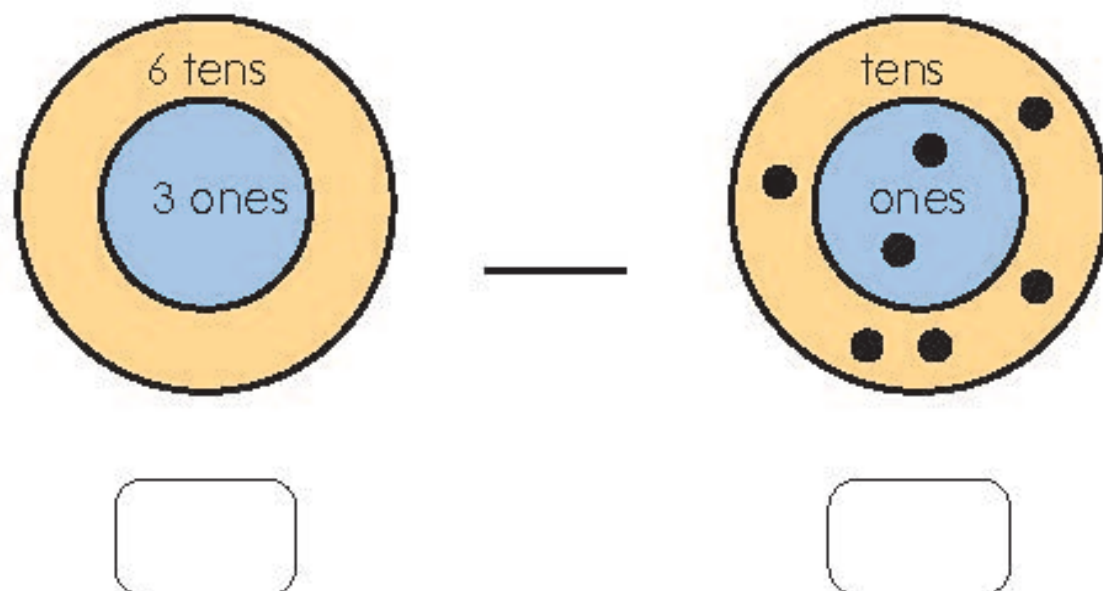
Place Value chart	
Tens	Ones
7	9

—

Place Value chart	
Tens	Ones
9	1

Task 2: Use $<$, $>$ or $=$ to compare the groups.

a.



b.



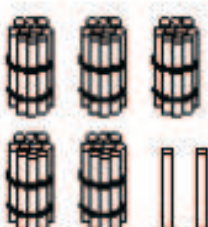
LESSON 4

Adding 1-digit numbers to 2-digit numbers

Activity 6A

Task 1: Do the following addition problems.

a.  +  = 

b.  +  = 

c.

	Tens	Ones
		
+		
=		

Task 2: Use the number chart to solve the addition problem.

a. $72 + 6 =$ b. $88 + 4 =$ c. $25 + 9 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Task 3: Solve the following problems.

a. 34

$+ 4$

b. 69

$+ 7$

c. $76 + 8 =$

d. $54 + 6 =$

LESSON 5

Subtracting a 1-digit number from a 2-digit number

Activity 10A

Task 1: Solve the following subtraction problems..

a.

	Tens	Ones
		
-		
=		

b.

	Tens	Ones
		
-		
=		

Task 2: Use the number chart to do the subtraction problem.**Example:** $48 - 5 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $48 - 5 = 43$

a. $61 - 8 =$ b. $83 - 6 =$ c. $34 - 6 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Task 3: Solve the following problems.

a. $\begin{array}{r} 39 \\ - 4 \\ \hline \end{array}$

b. $\begin{array}{r} 67 \\ - 7 \\ \hline \end{array}$

c. $28 - 6 =$

d. $56 - 4 =$

Solving addition and subtraction word problems

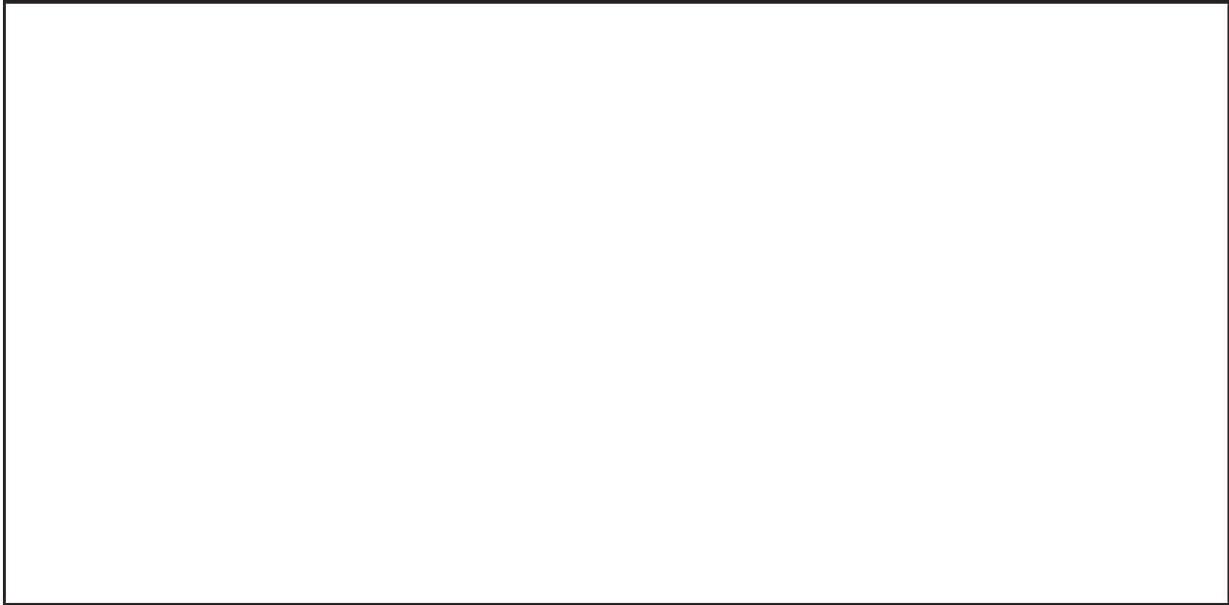
Activity 6A

Task 1: Solve the following word problems.

- a. Mma Adisa sells meat at Kotokoraba market. Last Saturday, she sold 35kg of goat meat and 9kg of grass cutter meat. How many kilograms of meat did she sell altogether?

- b. There were 51 students in Basic Five. 7 new students joined the class. How many students are in the class now?

- c. Dzifa went to the market with 60 mangoes to sell. At the end of the market day she had sold only 9 of them. How many mangoes are left?



- d. In a school, 37 students were called to the football team. At the end of a trial session, 8 students were taken out of the team. How many students were left?



LESSON 7

Multiplication of 1-digit by 1-digit number

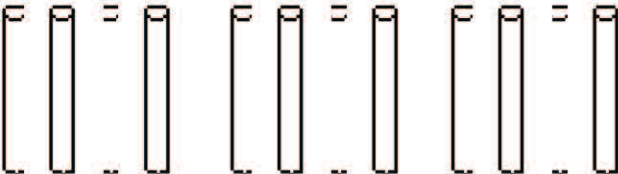
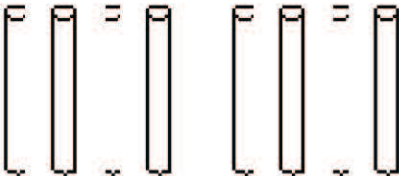
Activity 14

Task 1: Write multiplication sentence for the following groups of items.

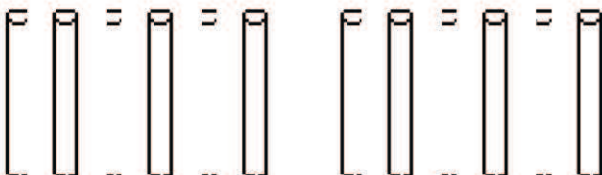
Example:

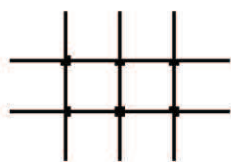
	$2 \text{ groups of } 6 = 2 \times 6 = 12$
---	--

a.

 	
--	--

b.

 	
--	--

Task 2: Use the ladder strategy to do the following.**Example: $2 \times 3 =$** So, $2 \times 3 = 6$

a. $4 \times 6 =$

b. $5 \times 2 =$

Task 3: Use the number chart to solve the multiplication problems.

a. $9 \times 7 =$

b. $6 \times 11 =$

$\times$	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

c. $7 \times 9 =$

d. $11 \times 6 =$

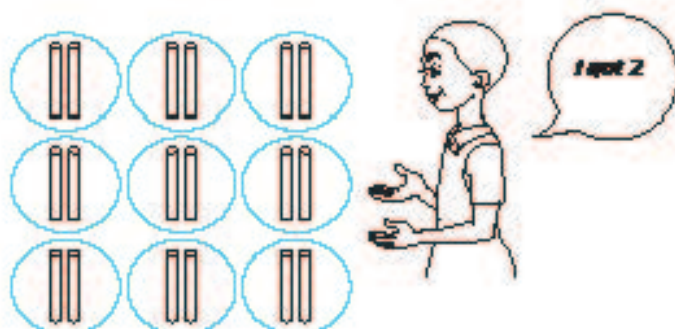
$\times$	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Division of a 2-digit number by a 1-digit number

Activity 20

Task 1: Draw to show the division sentence.

Example: $18 \div 9 =$



So, $18 \div 9 =$

a. $12 \div 3 =$

So, $12 \div 3 =$

b. $15 \div 5 =$

So, $15 \div 5 =$

c. $20 \div 4 =$

So, $20 \div 4 =$

Task 2: Use repeated subtraction strategy to do the following division problems.

Example: $20 \div 4 = ?$

$$20 - 4 = 16$$

$$16 - 4 = 12$$

$$12 - 4 = 8$$

$$8 - 4 = 4$$

$$4 - 4 = 0$$

I subtracted 4 five times so $20 \div 4 = 5$

a. $24 \div 3 =$

So, $24 \div 3 =$

b. $32 \div 8 = \square$

So, $32 \div 8 = \square$

Task 3: Solve the division problems.

- a. There are 15 oranges in the basket. If 5 people are to share the oranges equally, how many oranges will each person get?

- b. A car can carry 4 persons at a time. How many such cars will be needed to carry 20 persons?

c. Write a word problem for the division sentence below

b. $12 \div 2 =$

So, $12 \div 2 =$

MODULE 2

LESSON 1

Number names, numeral recognition, and counting in sequence

Activity 1B

Task 1: Complete the following:

Example: How many hundreds, tens and ones?

Place Value Mat		
Hundreds	Tens	Ones
		

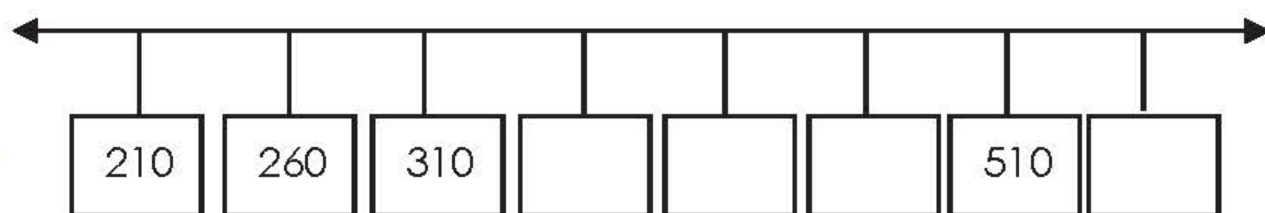
There are 1 hundred, 3 tens and 6 ones. = **136**

a. How many hundreds, tens and ones?

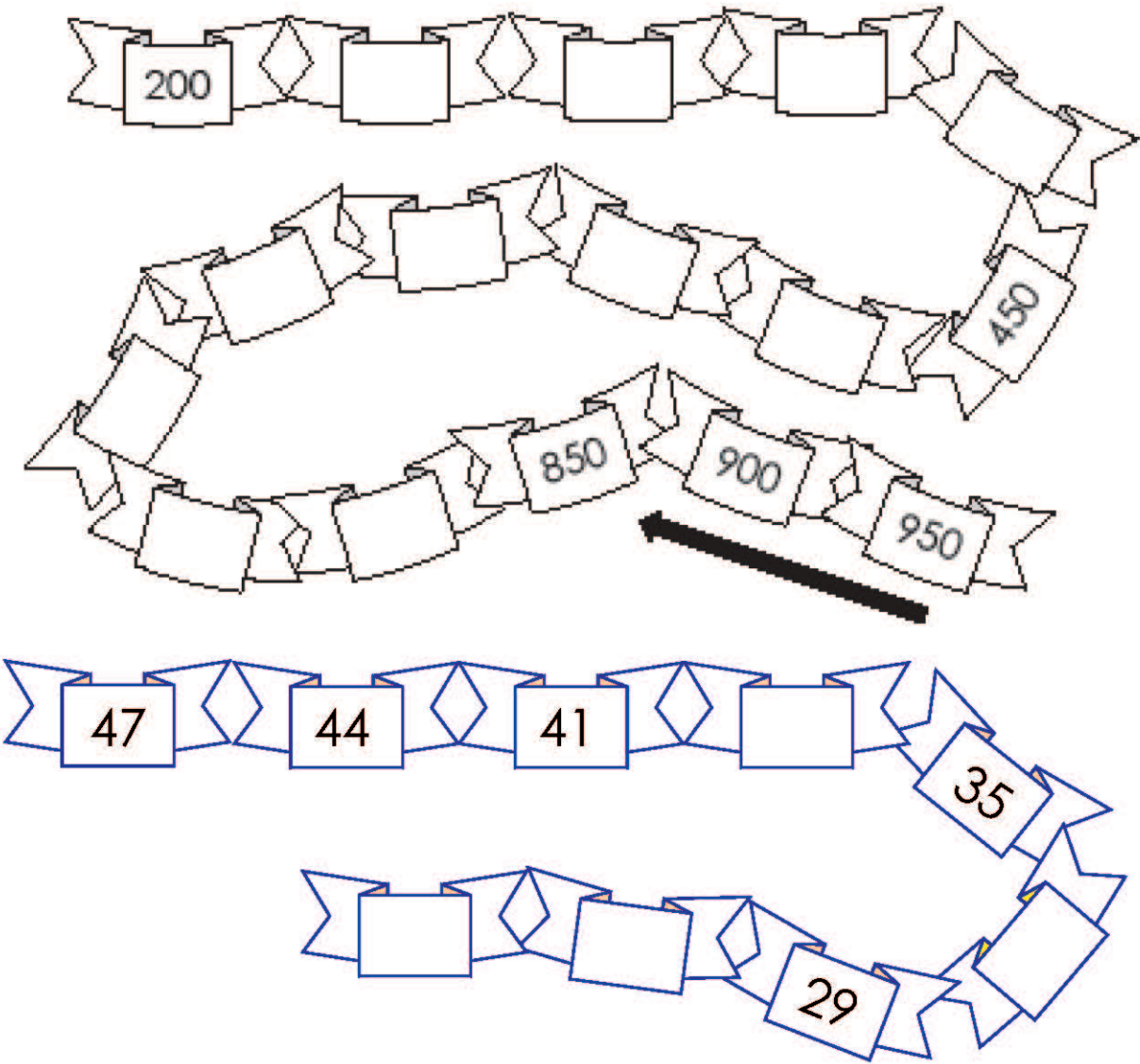
Place Value Mat		
Hundreds	Tens	Ones
		

There are ____ hundred, ____ tens and ____ ones. =

b. Fill in the missing numbers.



c. Fill in the missing numbers. Count backwards.



Task 2: Complete the number chart below.

100	110		130	140		160	170	180	190
200		220	230		250	260	270		290
300	310		330	340	350		370	380	
	410	420		440	450	460	470	480	490
	510	520	530	540		560	570		590
600		620	630	640	650		670	680	
700	710			740	750	760		780	790
	810	820	830		850		870	880	890
900		920	930	940		960		980	990

- b. Rearrange the numbers to complete the number chart starting from the smallest to the biggest number.

100	110	120	260	140
220	200	170	300	190
160	210	150	280	240
250	130	270	230	290
180	310	340	330	320
600		620	630	640
700	710			740
	810	820	830	
900		920	930	940



Place value of 3-digit numbers

Activity 4B

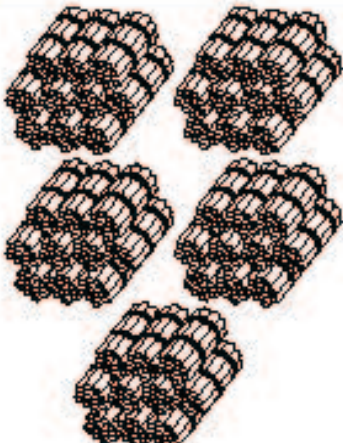
Task 1: How many hundreds, tens and ones?

a.

Place Value Mat		
Hundreds	Tens	Ones
		

There are ____ hundreds, ____ tens and ____ ones =

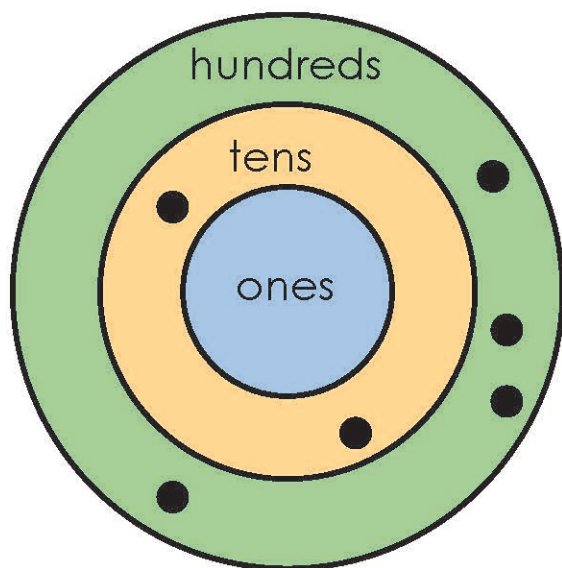
b.

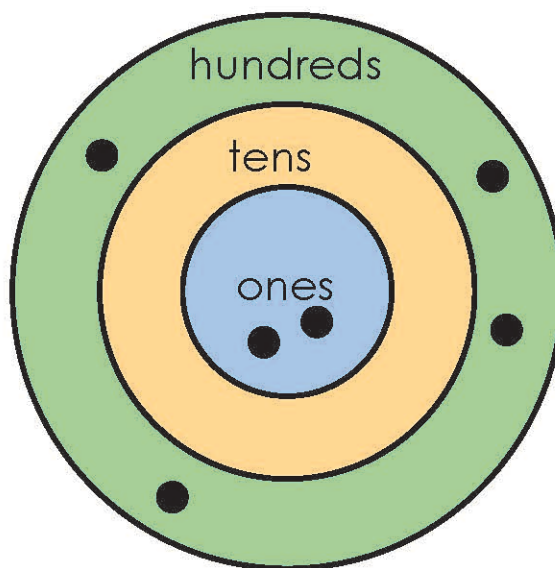
Place Value Mat		
Hundreds	Tens	Ones
		

There are ____ hundreds, ____ tens and ____ ones =

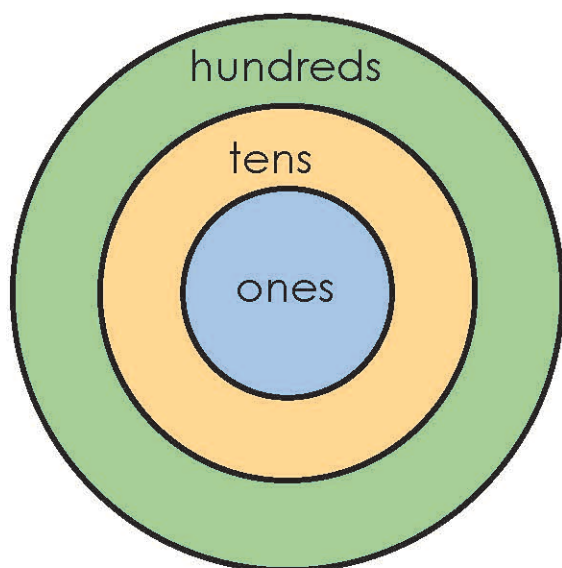
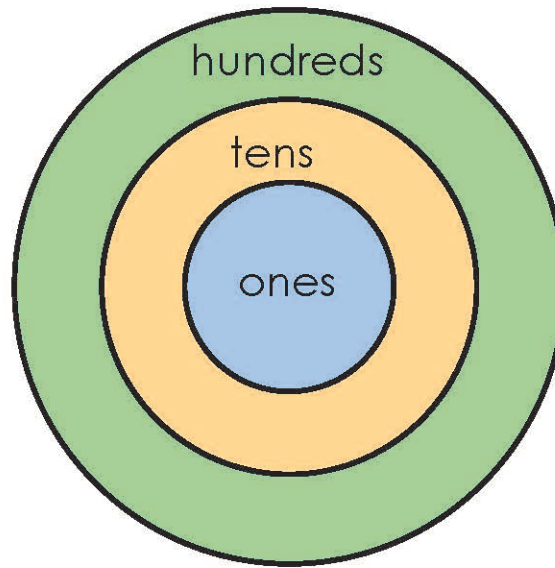
Task 2: What number does each wheel represent?

a.





b. Make dots (●) on the number wheel to show the number written under each wheel.


451

133

Comparing and Ordering 3-digit numbers using $<$, $>$ or $=$

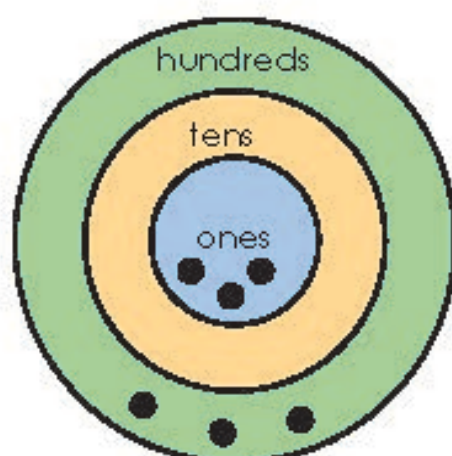
Activity 5B

Task 1: Use $<$, $>$ or $=$ to compare the groups of number quantities.

Example:

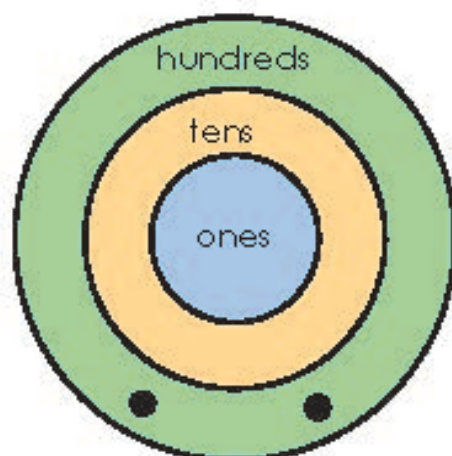
Hundreds	Tens	Ones
		

$<$



a.

Hundreds	Tens	Ones
		



b.

Hundreds	Tens	Ones
3	1	4

Hundreds	Tens	Ones
2	9	8

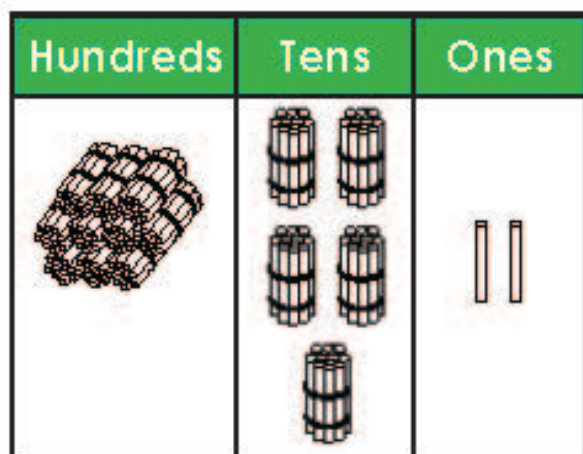
c.

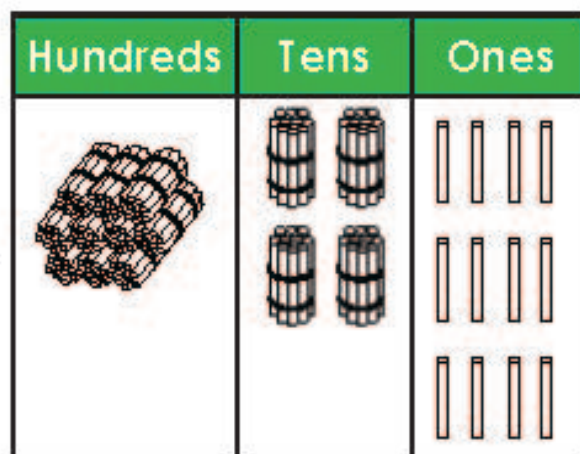
570

909

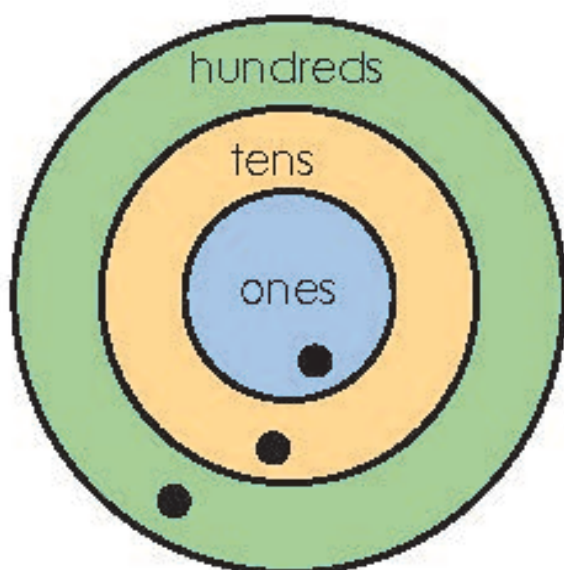
Task 2: Select the correct symbol (<, > or =) to compare.

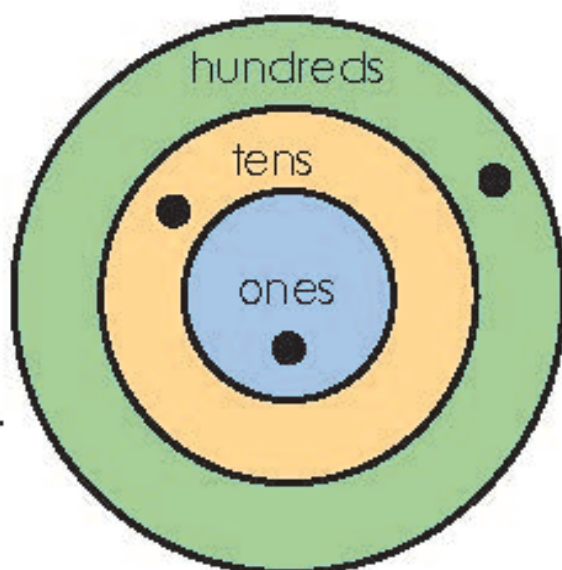
a.





b.





c.

357

509

Addition of two 2-digit numbers

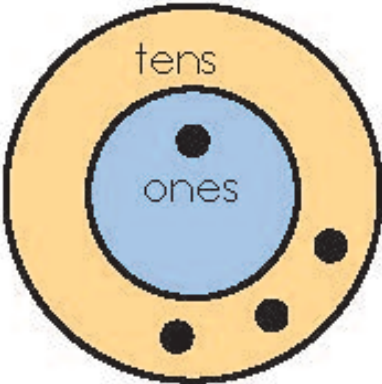
Activity 6B2

Task 1: Solve the addition problem in the mat.

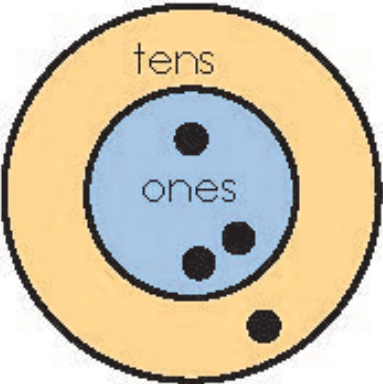
a.

	Tens	Ones
		
+		
=		

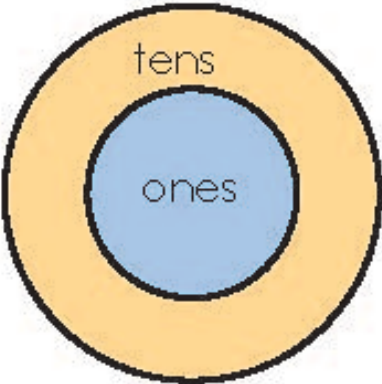
b. Make dots (●) to show your answer and write it down.



+



=



Solve the following addition problems

$$\begin{array}{r} 1. \quad 64 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 38 \\ + 61 \\ \hline \end{array}$$

$$3. \quad 26 + 39 =$$

$$4. \quad 45 + 19 =$$

Task 2: Use the number chart to solve the following addition problems.

Example: $24 + 5 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $24 + 5 = 29$

$$45 + 11 =$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $45 + 11 =$

Subtraction of two 2-digit numbers

Activity 10B

Task 1: Solve the subtraction problems.

a.

	Tens	Ones
		
-		
=		

b.

	Tens	Ones
		
-		
=		

C.

	Tens	Ones
	5	6
—	4	1
=		

d.

	Tens	Ones
	8	8
—	5	0
=		

Task 2: Use the number chart to solve the subtraction problems

Example: $48 - 5 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $48 - 5 =$ 43

a. $61 - 8 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $61 - 8 =$

b. $99 - 29 =$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

So, $99 - 29 =$

LESSON 6

Multiplication - 2-digit number by 1-digit number

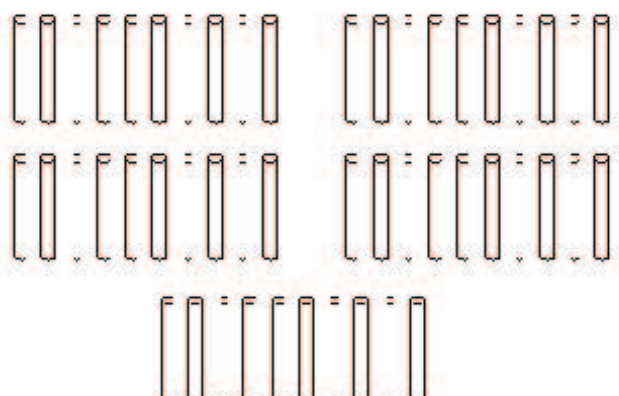
Activity 14B

Task 1: Use the grouping strategy to solve the multiplication problems.

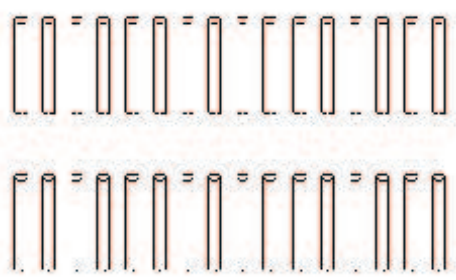
Example:

	2 groups of 12 = $2 \times 12 = 24$
--	---

a.

	___ groups of ___ = ___ x ___ = ___
---	--

b.

	___ groups of ___ = ___ x ___ = ___
---	--

Task 2: Use the number chart to solve the multiplication problem.

a. $12 \times 9 =$

$\times$	1	2	3	4	5	6	7	8	9	10	11	12
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

So, $12 \times 9 =$

Task 3: Use the expanded box strategy to solve the problems.

Example: 48×6

	40	+	8
6	$6 \times 40 = 240$		$6 \times 8 = 48$

$240 + 48 = 288$

So, $48 \times 6 = 288$

a. $55 \times 5 =$

--	--

So, $55 \times 5 =$

b. $63 \times 4 =$

--	--

So, $63 \times 4 =$

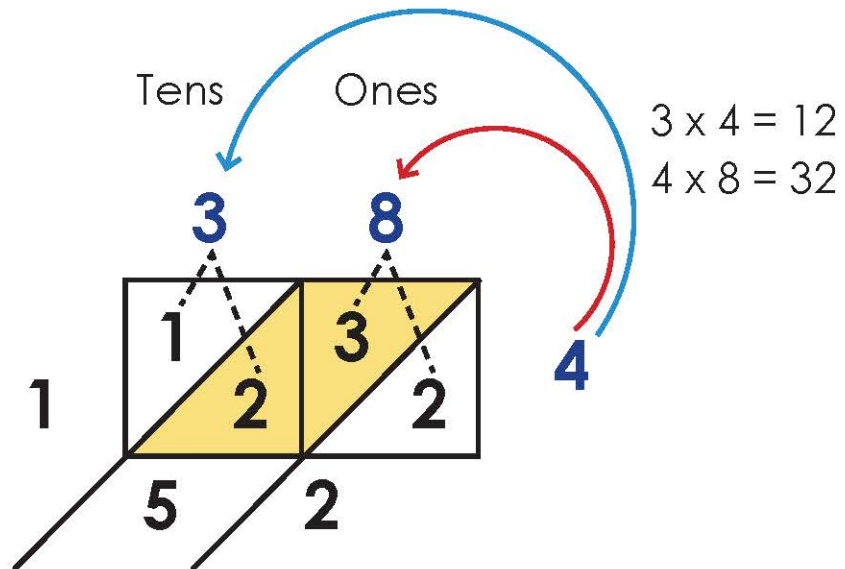
LESSON 7

Multiplication and division problems

Activity 18

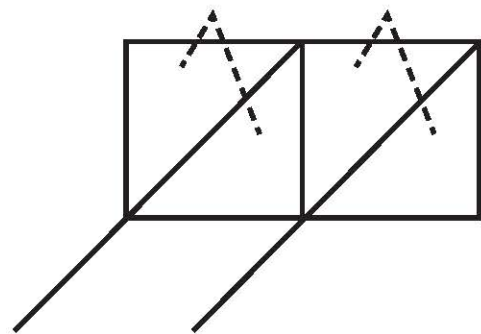
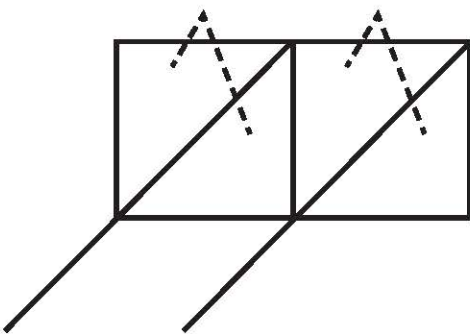
Task 1: Use the lattice method to solve multiplication of a 2-digit number by a 1-digit number.

Example: $38 \times 4 =$



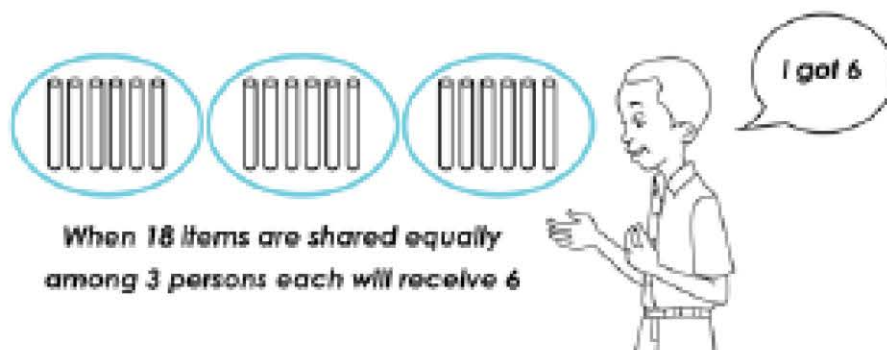
a. $22 \times 5 =$

b. $14 \times 9 =$



Task 2: Solve the division problems

Example; $18 \div 3 =$



So, $18 \div 3 = 6$

a. $44 \div 4 =$

So, $44 \div 4 =$

b. Write a word problem for the division sentence.

$80 \div 10 =$

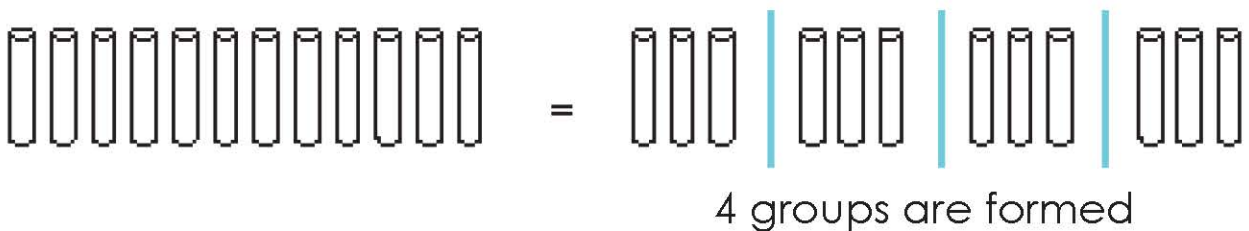
LESSON 8

Divide a 2-digit number by a 1-digit number

Activity 19

Task 1: Solve the division problems by making groups.

Example: 12 straws are grouped in 3s, how many groups are formed?



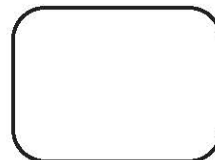
So, $12 \div 3 = 4$

a. If there are 35 items, make groups each having five items.

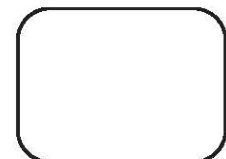


1. Write the division sentence.
2. How many groups did you form?

b. Count the paper clips in the picture.



How many pencils will 72 paper clips make?



Task 2: Solve the following division problems using the repeated subtraction strategy.

Example: $18 \div 3 =$

$18 - 3 = 15$	①
$15 - 3 = 12$	②
$12 - 3 = 9$	③
$9 - 3 = 6$	④
$6 - 3 = 3$	⑤
$3 - 3 = 0$	⑥

I subtracted 3 six times

So, $18 \div 3 = 6$

a. $21 \div 7 =$

$$\begin{aligned} 21 - 7 &= 14 \\ 14 - 7 &= 7 \\ 7 - 7 &= 0 \end{aligned}$$

I subtracted 7 three times

So, $21 \div 7 =$

3

b. $24 \div 6 =$

$$\begin{aligned} 24 - 6 &= 18 \\ 18 - 6 &= 12 \\ 12 - 6 &= 6 \\ 6 - 6 &= 0 \end{aligned}$$

I subtracted 6 four times

So, $24 \div 6 =$

4

MODULE 3

LESSON 1

Modeling number quantities using Ghanaian currency

Activity 1C

Task 1: Use the currency notes to answer the questions.

Example:



Write the value of each denomination.

$$1 \text{ of Gh} \pounds 5 = 5$$

$$3 \text{ of Gh} \pounds 20 = 60$$

$$2 \text{ of Gh} \pounds 50 = 100$$

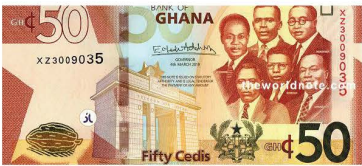
$$1 \text{ of Gh} \pounds 100 = 100$$

$$1 \text{ of Gh} \pounds 200 = 200$$

What is the total value of the currency?

$$200 + 100 + 100 + 60 + 5 = \text{Gh} \pounds 465$$

a.



a. Write the value of each denomination.

b. What is the total value of the currency?

Task 2: Complete the number chart.

10	20	30	40			70		90	
	120		140		160		180		200
210		230		250		270		290	
	320		340		360		380		400
410		430		450		470		490	
	520		540		560		580		600
610		630		650		670		690	
	720		740		760		780		800
810		830		850		870		890	
				950					

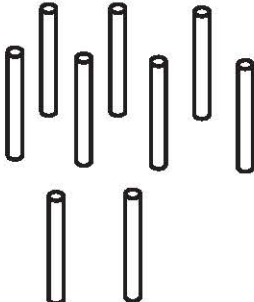
Lesson 2

Place value of a digit in 4-digit numbers

Activity 5C

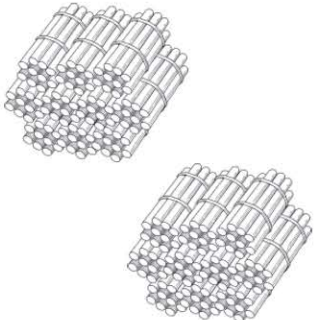
Tasks1: What number is represented on the place value mat.

Example:

Place Value Mat		
Hundreds	Tens	Ones
		

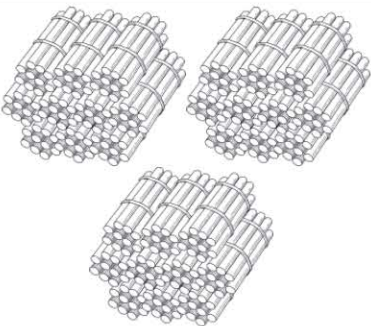
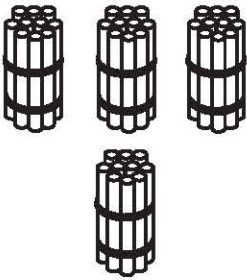
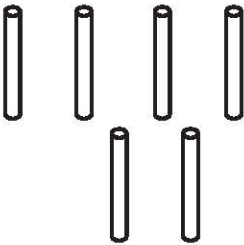
There are 1 hundred, 2 tens and 9 ones. The number is **129**.

a.

Place Value Mat		
Hundreds	Tens	Ones
		

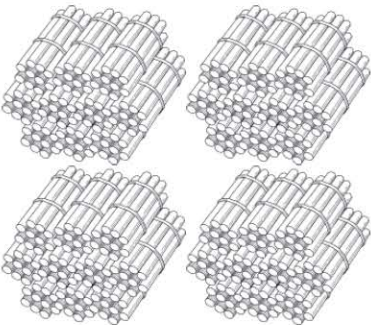
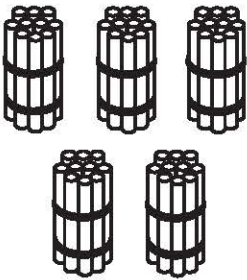
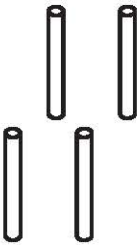
There are ____ hundreds ____ tens and ____ ones. The number is ____.

b.

Place Value Mat		
Hundreds	Tens	Ones
		

There are ____ hundreds ____ tens and ____ ones. The number is ____.

c.

Place Value Mat		
Hundreds	Tens	Ones
		

There are ____ hundreds ____ tens and ____ ones. The number is ____.

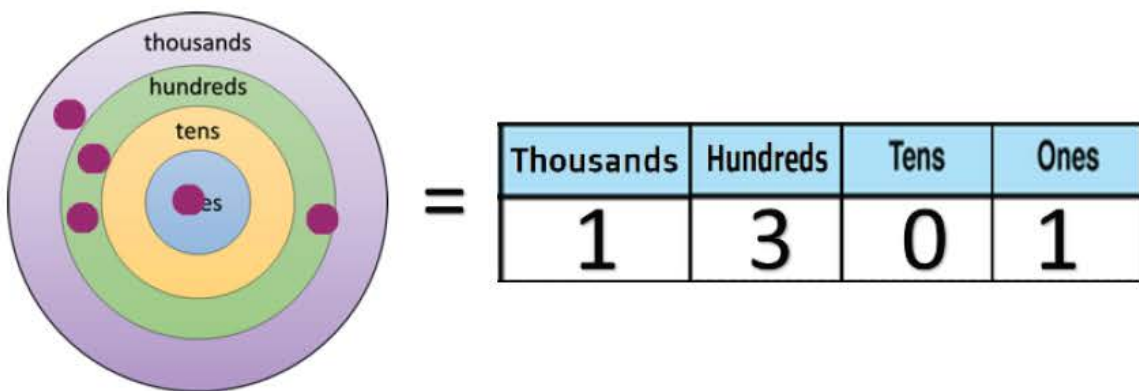
Lesson 3

Comparing and ordering 4-digit numbers

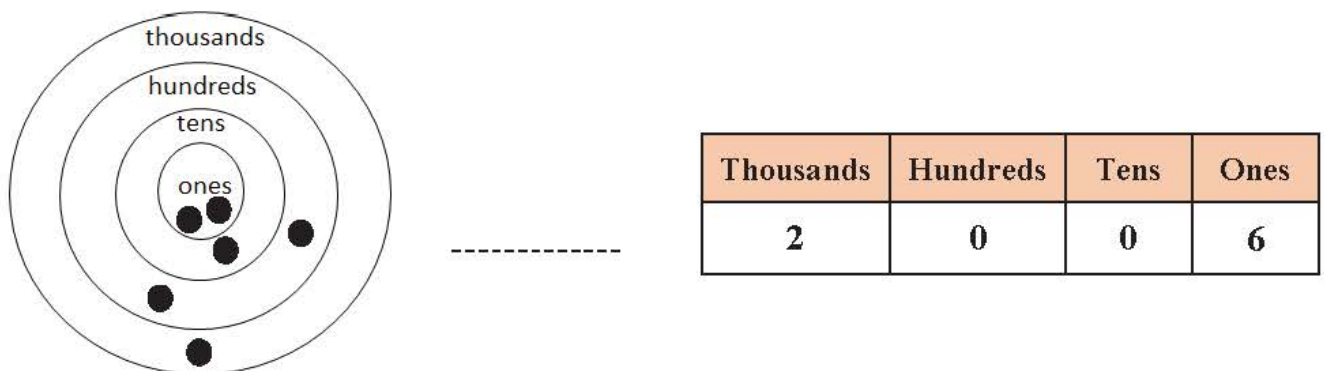
Activity 5C

Task 1: Use $<$, $>$ or $=$ to compare the following numbers.

Example:

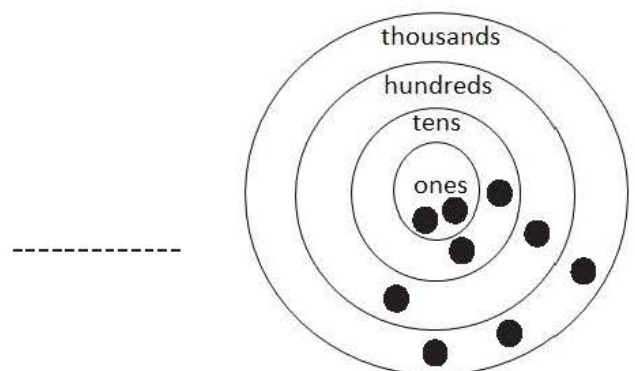


a.

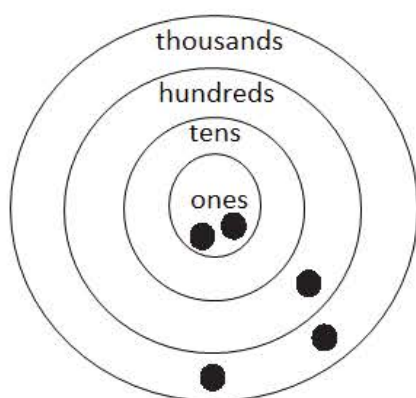


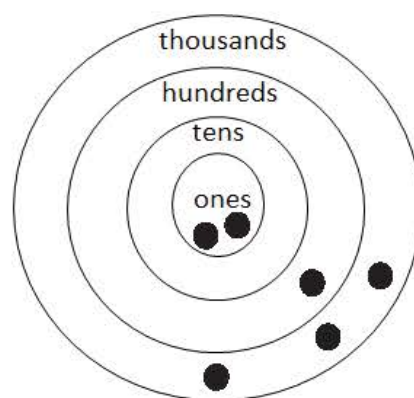
b.

Thousands	Hundreds	Tens	Ones
4	1	2	2

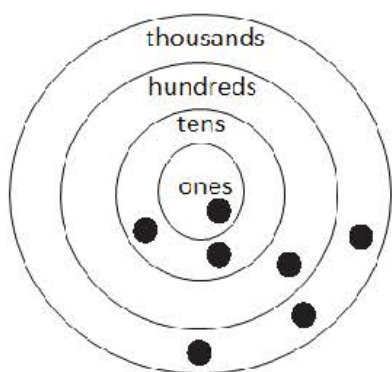


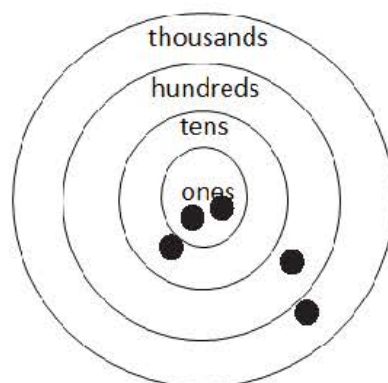
c.





d.





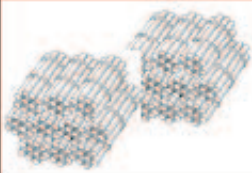
Lesson 4

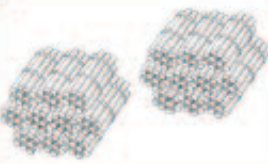
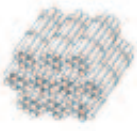
Addition of a 2 and 3-digit numbers

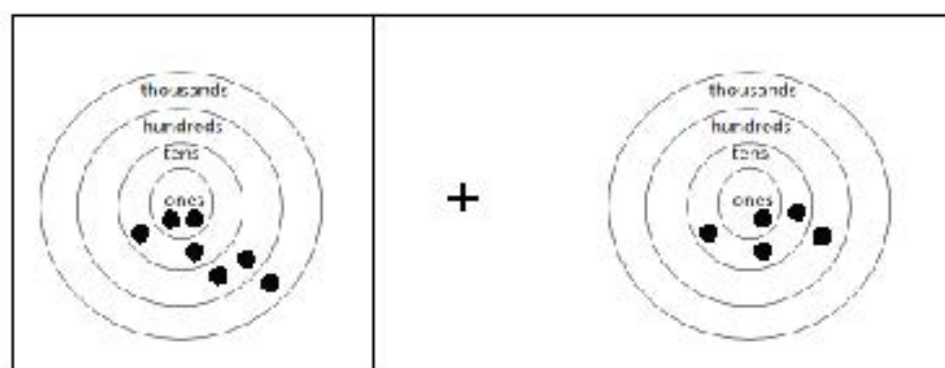
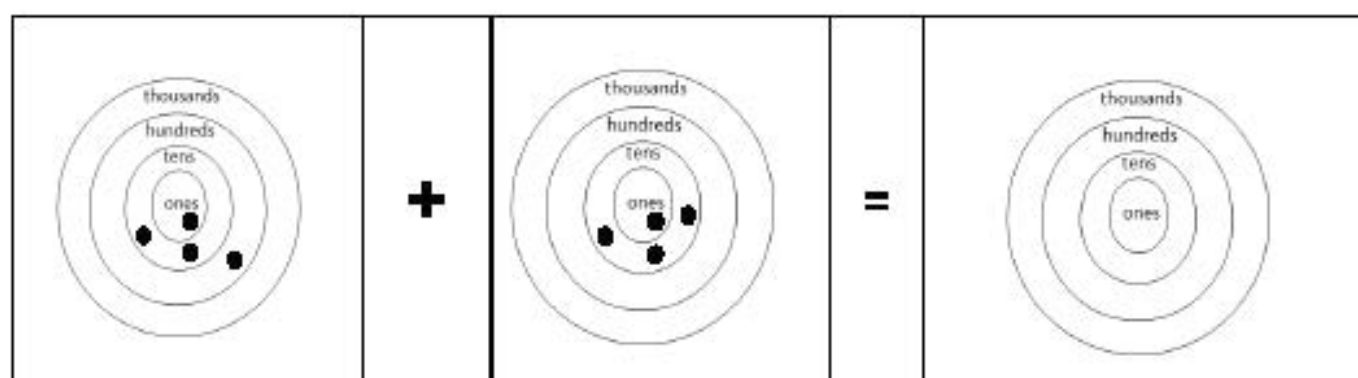
Activity 6C

Task 1: Solve the addition problems.

b.

	Hundreds	Tens	Ones
			
+			
=			

	Hundreds	Tens	Ones
			
+			
=			



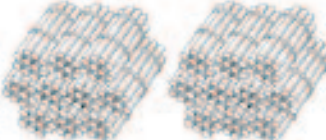
Lesson 5

Subtraction of a 2-digit number from a 3-digit number

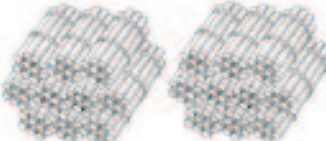
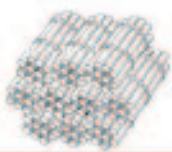
Activity 10C

Task 1: Solve the subtraction problems.

a.

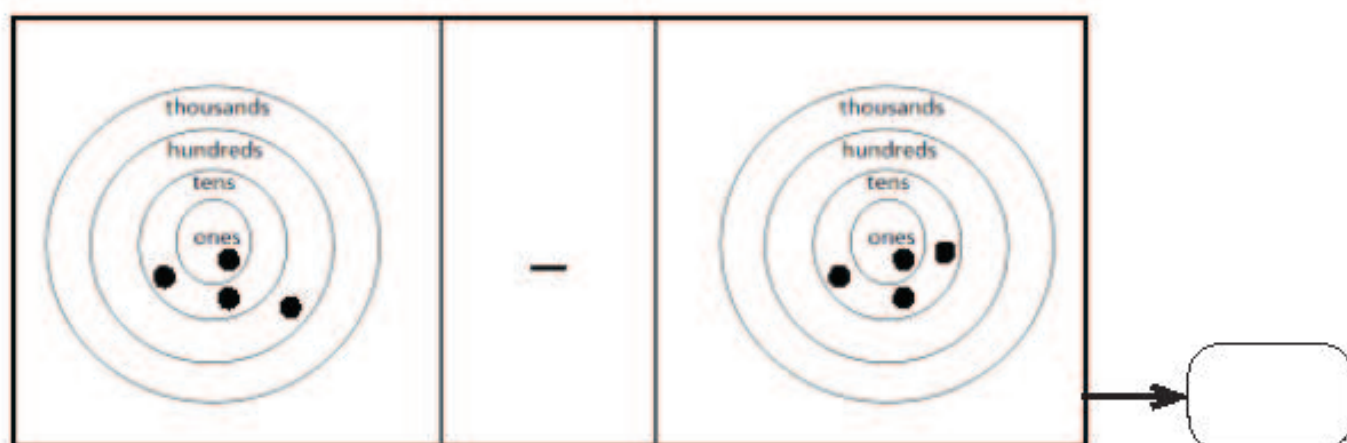
	Hundreds	Tens	Ones
			
-			
=			

b.

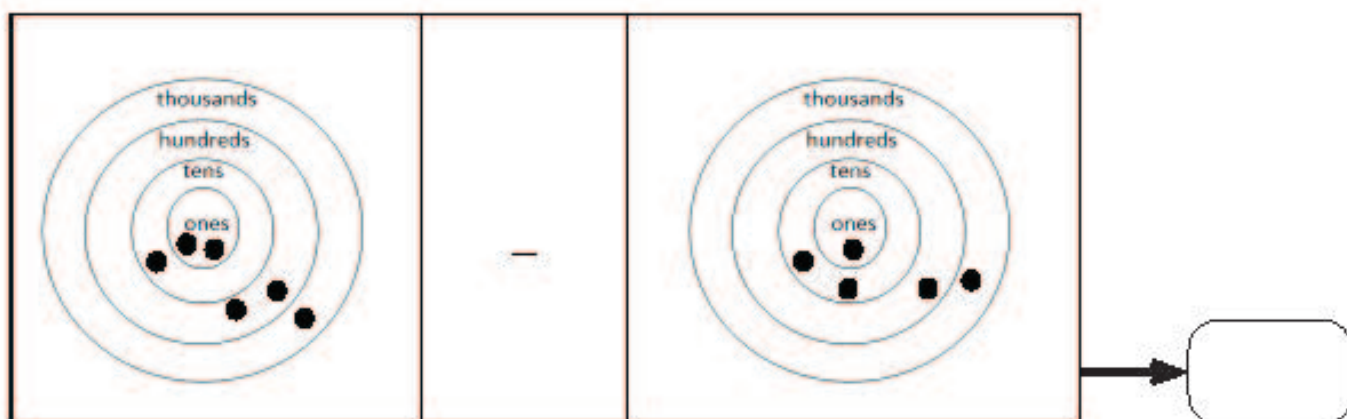
	Hundreds	Tens	Ones
			
-			
=			

Task 2: Solve the subtraction problems using the number wheels.

a.



b.



Lesson 6

Multiplication of a 2-digit number by a 2-digit number

Activity 17B

Task 1: Use the Expand and Box method to solve the following multiplication problems.

Example: $76 \times 34 =$

	70	6	
30	$30 \times 70 = 2100$	$30 \times 6 = 180$	$2100 + 180 = 2280$ $280 + 24 = 304$ $2280 + 304 = 2,584$
4	$4 \times 70 = 280$	$4 \times 6 = 24$	

So, $76 \times 34 = 2,584$

a. $34 \times 21 =$

--	--	--

b. $60 \times 35 =$

--	--	--

Task 2: Solve the following word problems using the expand and box method.

- a. Assibi has 21 times as many fowls as her brother. If her brother has 35 fowls, how many fowls has Assibi?

- b. There are 15 books on each shelf of a library. If there are 22 shelves, how many books are in the library?

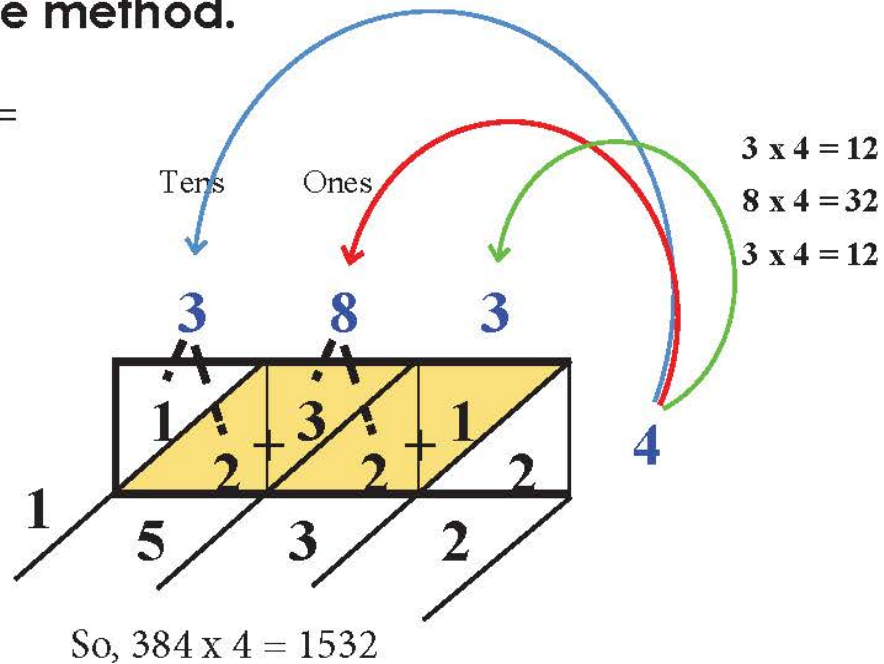
Lesson 7

Multiply a 3-digit number by a 1-digit number

Activity 18C

Task 1: Solve the multiplication problem using the lattice method.

Example: $383 \times 4 =$



a. $120 \times 4 =$

--	--	--

So, $120 \times 4 =$

b. $455 \times 6 =$

--	--	--

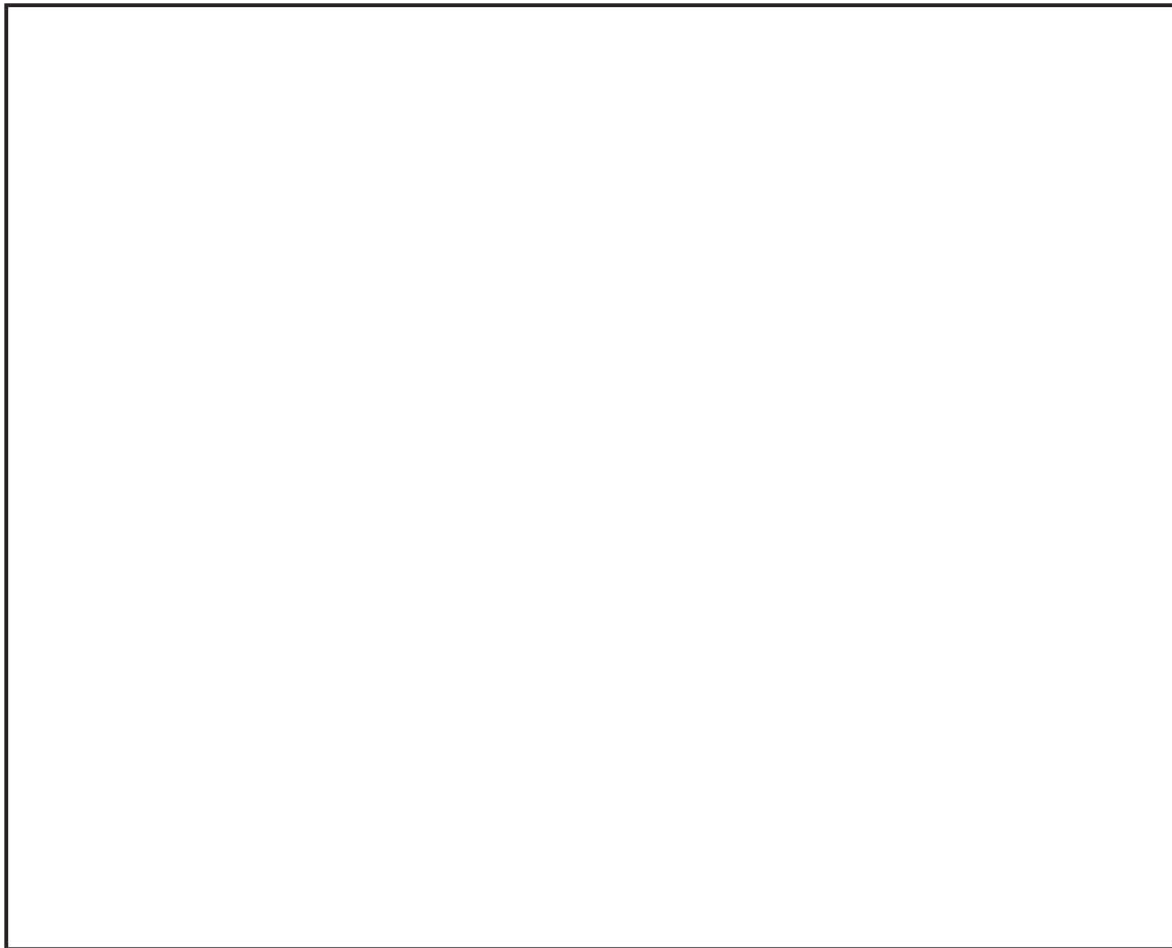
So, $455 \times 6 =$

Task 2: Solve the word problem using the expand and box method.

Nana is planting flowers in his community.
He plants 231 rows of sunflower.

Each row has 9 sunflowers.

a. How many sunflowers did he plant altogether?



Lesson 8

Division of 3-digit numbers by a 1-digit number

Activity 23

Task 1: Solve the division problems using the “Big 7” strategy.

Example: $318 \div 3 =$

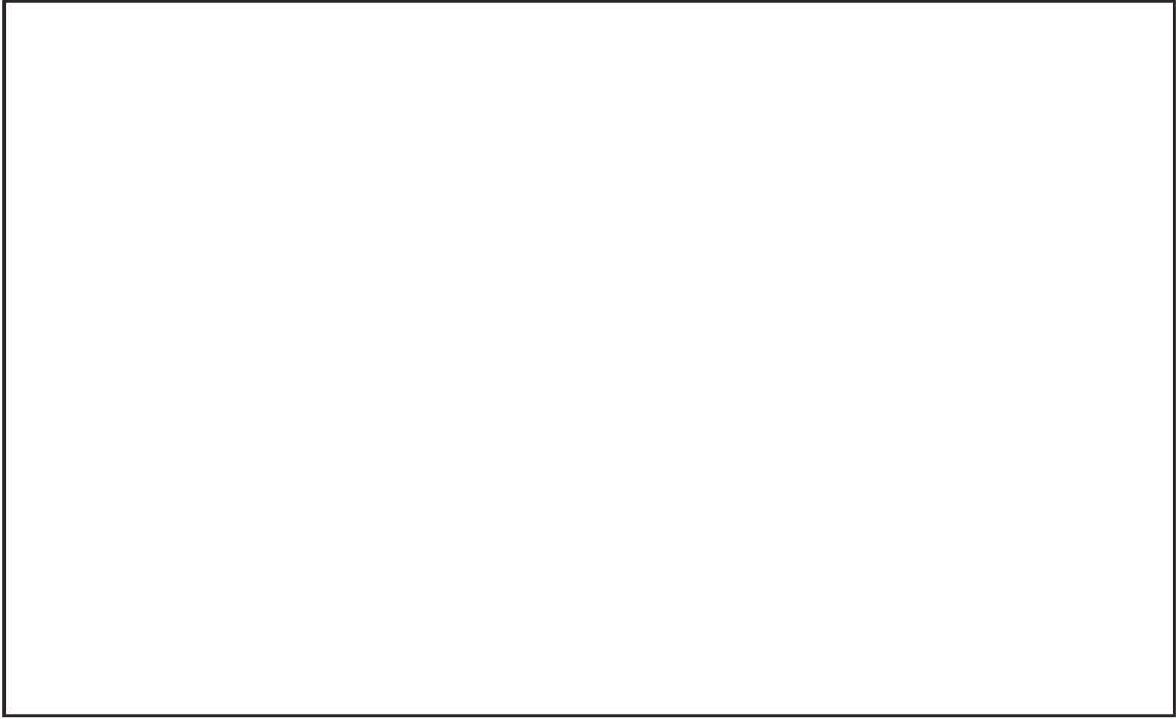
3	1	8	100
-3	0	0	
1	8		6
-1	8		
0			100 + 6 = 106

So, $318 \div 3 = 106$

a. $120 \div 6 =$

So, $120 \div 6 =$

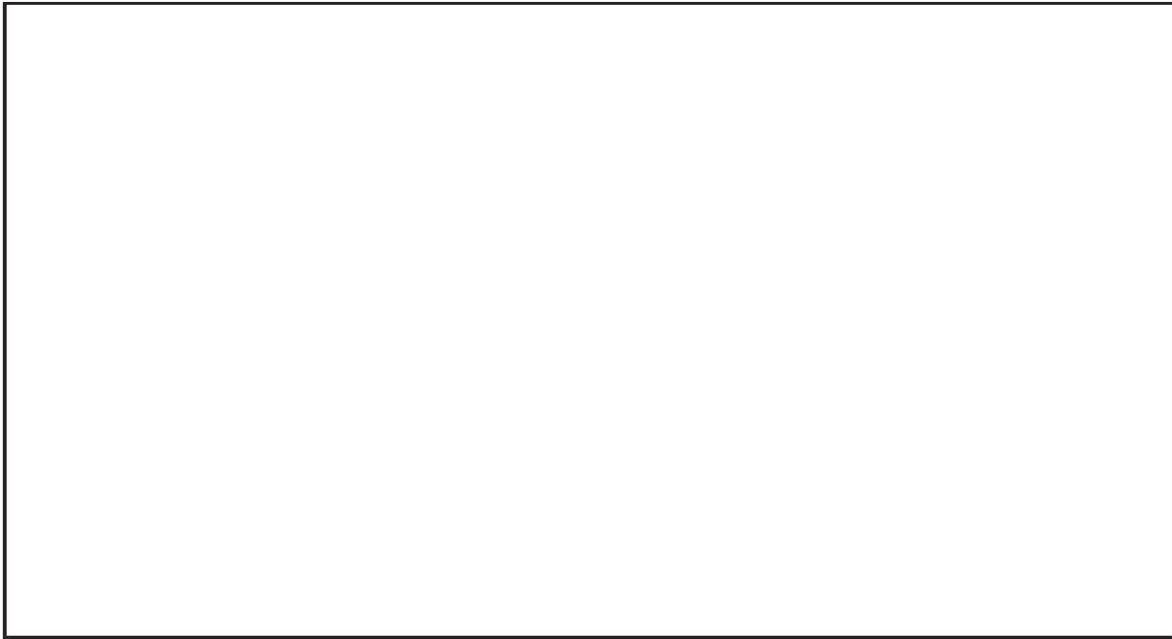
b. $279 \div 9 =$



So, $279 \div 9 =$

Task 2: Solve the following division word problems using any appropriate strategy.

- a. Mr Ali gave Gh¢240.00 to his workers to share equally for weeding his farm. If there were 8 workers, how much will each receive?



- b. 125 Basic 4 pupils were placed into 5 equal groups. How many pupils will be in each group?



