

Differentiated Learning (DL)

MATHEMATICS

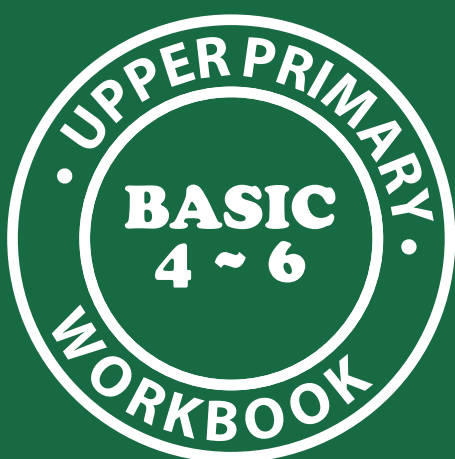
WORKBOOK

FOR UPPER PRIMARY



LEVEL
3

LEARNER'S WORKBOOK



Ghana Education
Service (GES)

unicef 
for every child

Differentiated Learning (DL)

*Mathematics Workbook for
Upper Primary*

Level 3

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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.

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

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

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

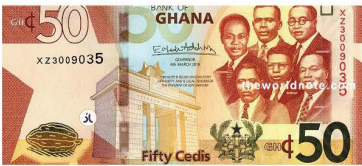
$$1 \text{ of Gh} \pounds 100 = 100$$

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

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					

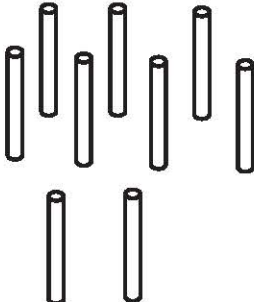
Lesson 2

Place value of a digit in 4-digit numbers

Activity 5C

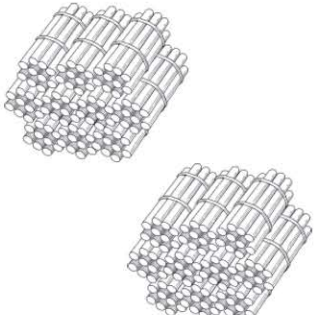
Tasks1: What number is represented on the place value mat.

Example:

Place Value Mat		
Hundreds	Tens	Ones
		

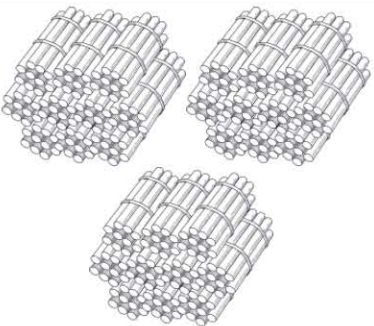
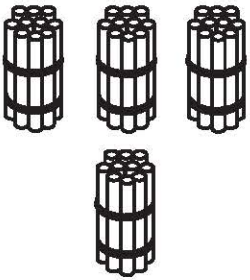
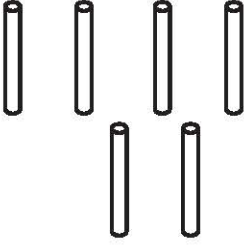
There are 1 hundred, 2 tens and 9 ones. The number is **129**.

a.

Place Value Mat		
Hundreds	Tens	Ones
		

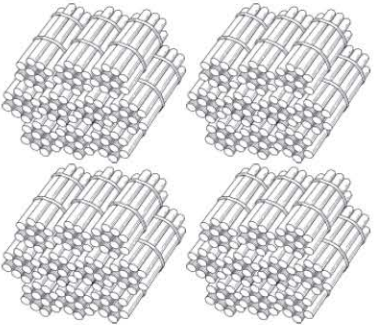
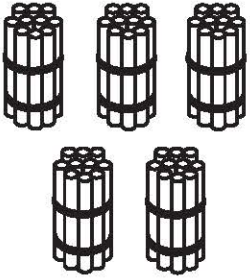
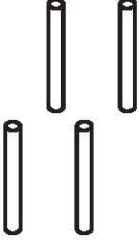
There are ____ hundreds ____ tens and ____ ones. The number is ____.

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 ____.

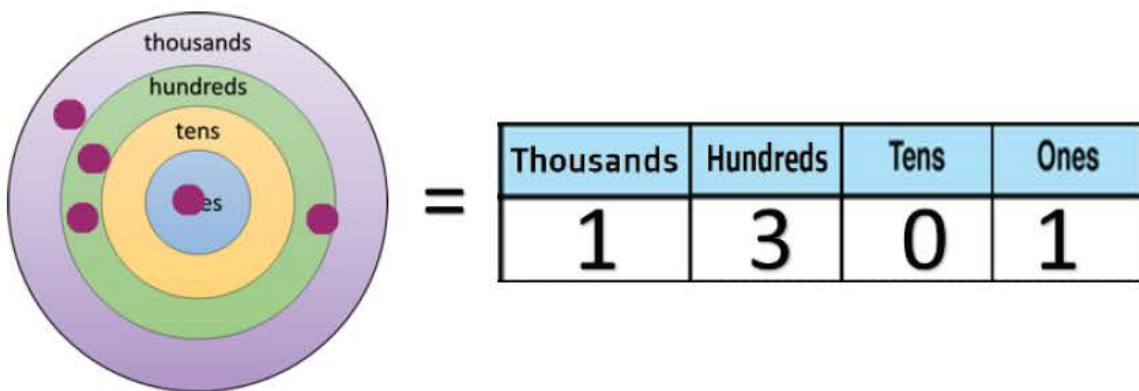
Lesson 3

Comparing and ordering 4-digit numbers

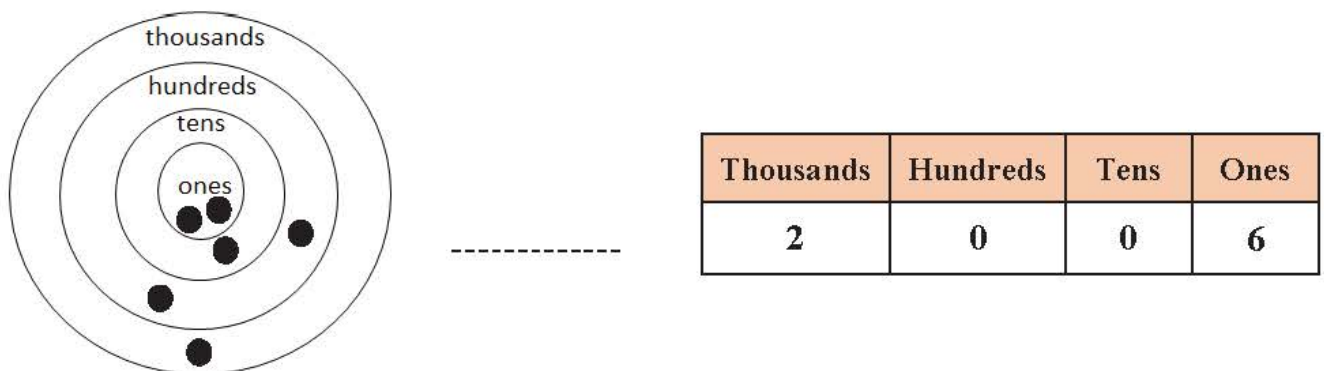
Activity 5C

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

Example:

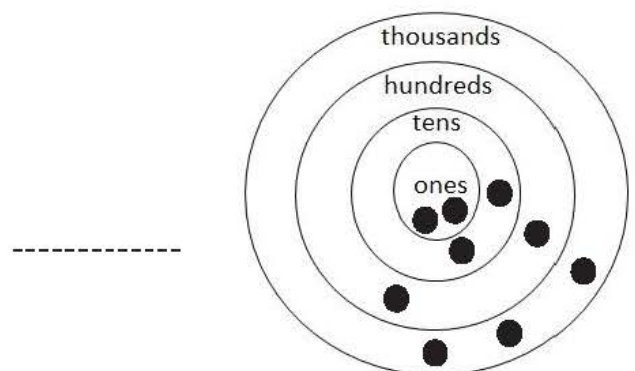


a.

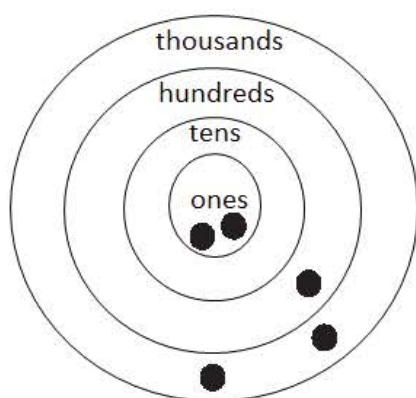


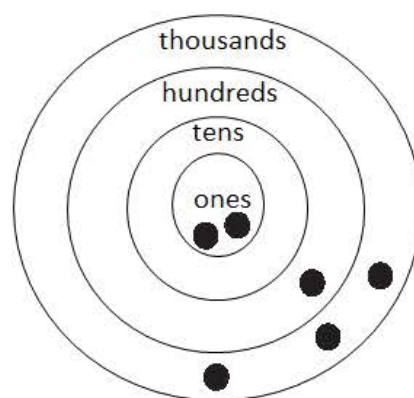
b.

Thousands	Hundreds	Tens	Ones
4	1	2	2

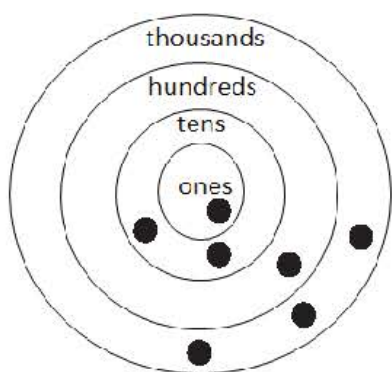


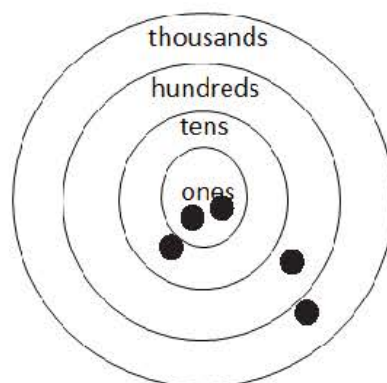
c.





d.





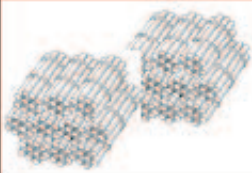
Lesson 4

Addition of a 2 and 3-digit numbers

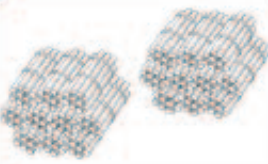
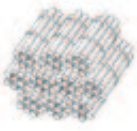
Activity 6C

Task 1: Solve the addition problems.

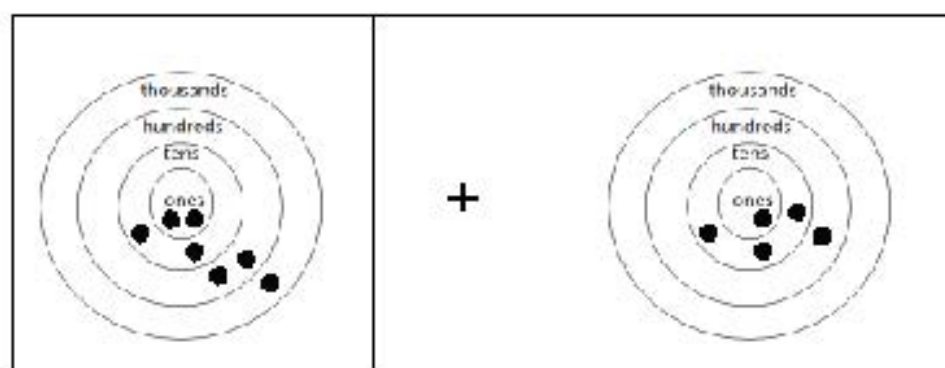
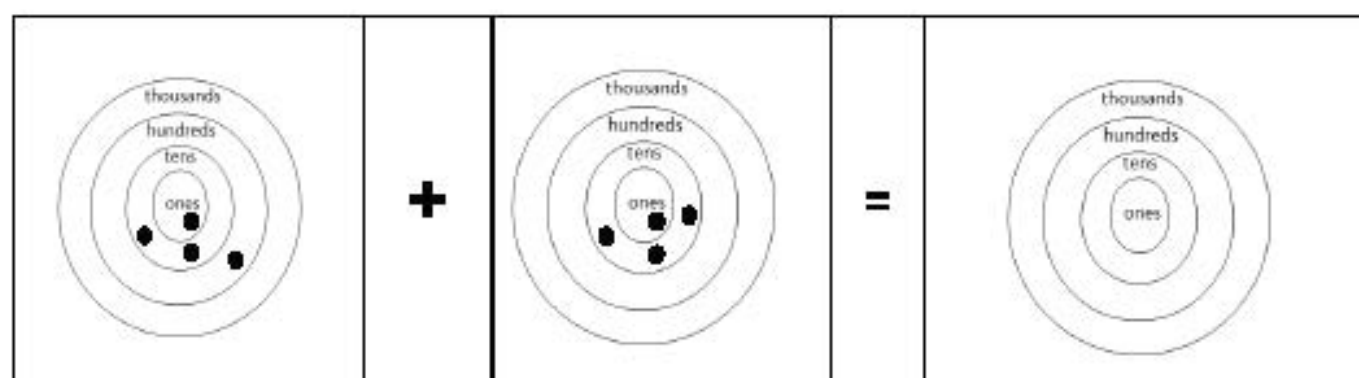
b.

	Hundreds	Tens	Ones
			
+			
=			

→

	Hundreds	Tens	Ones
			
+			
=			

→



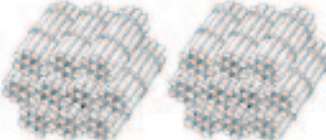
Lesson 5

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

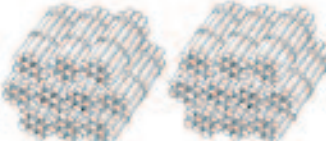
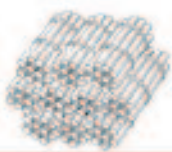
Activity 10C

Task 1: Solve the subtraction problems.

a.

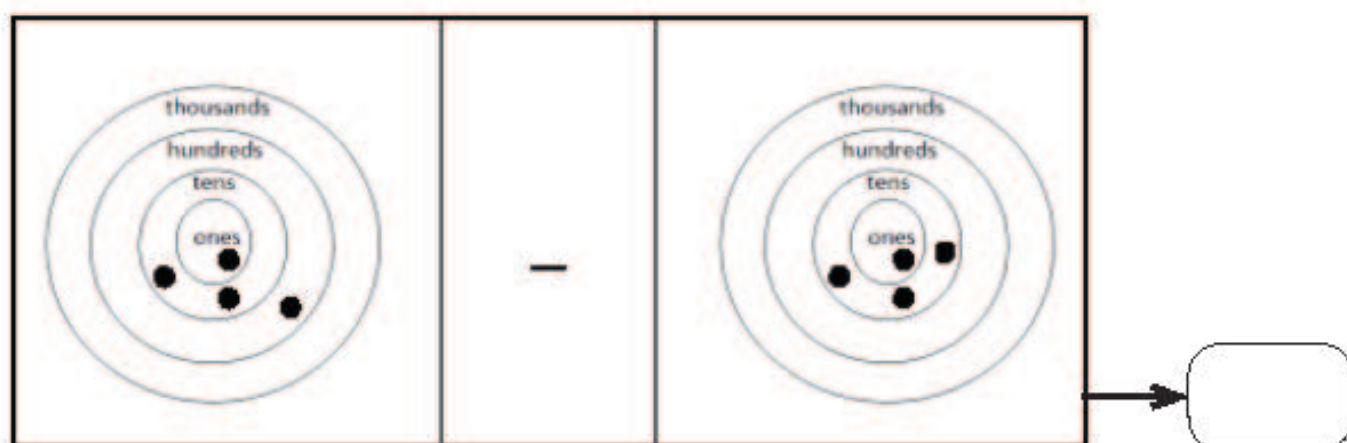
	Hundreds	Tens	Ones
			
-			
=			

b.

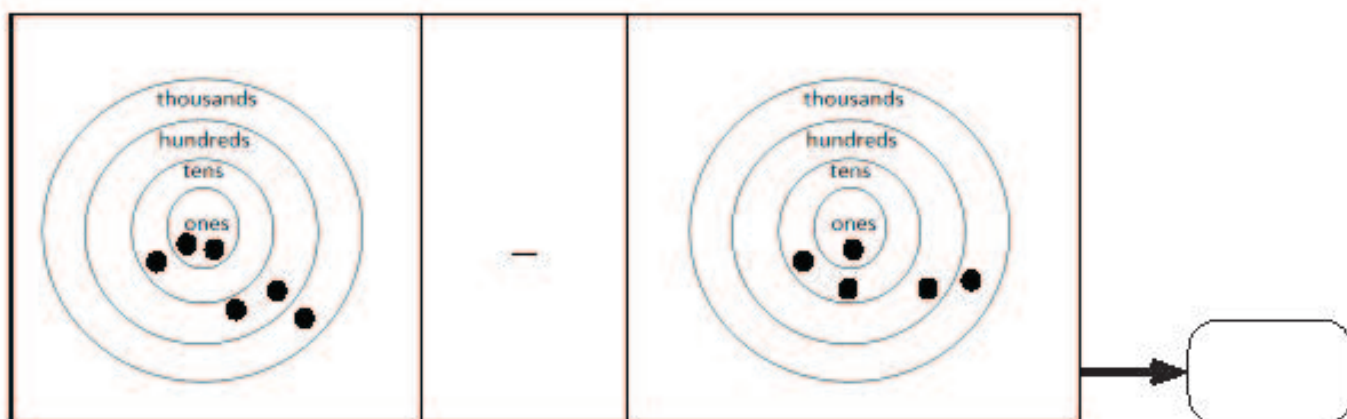
	Hundreds	Tens	Ones
			
-			
=			

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. $34 \times 21 =$

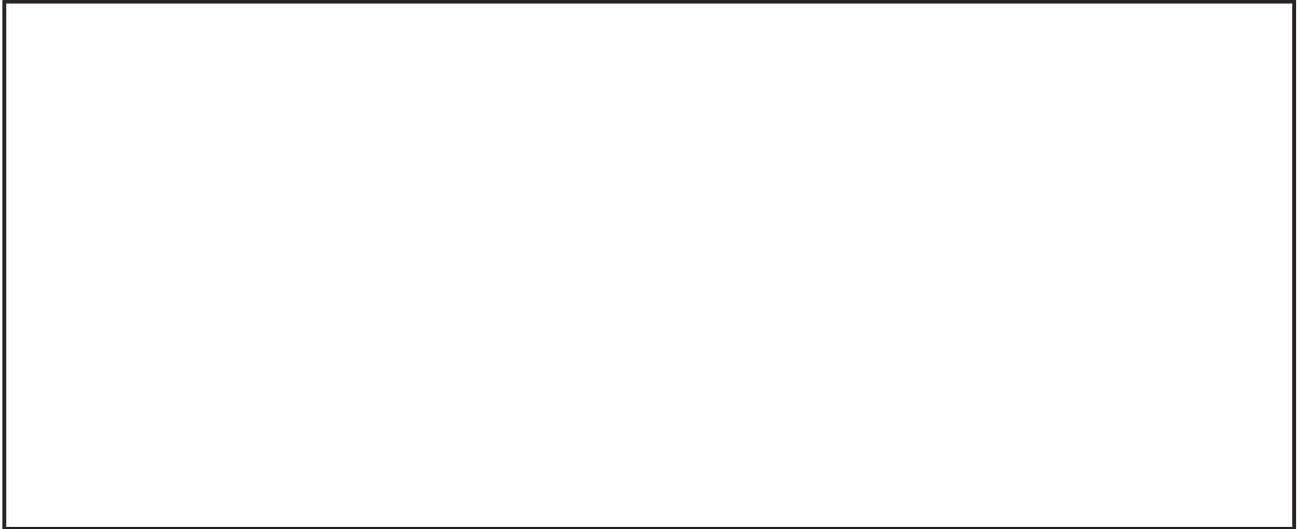
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b. $60 \times 35 =$

--	--

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?



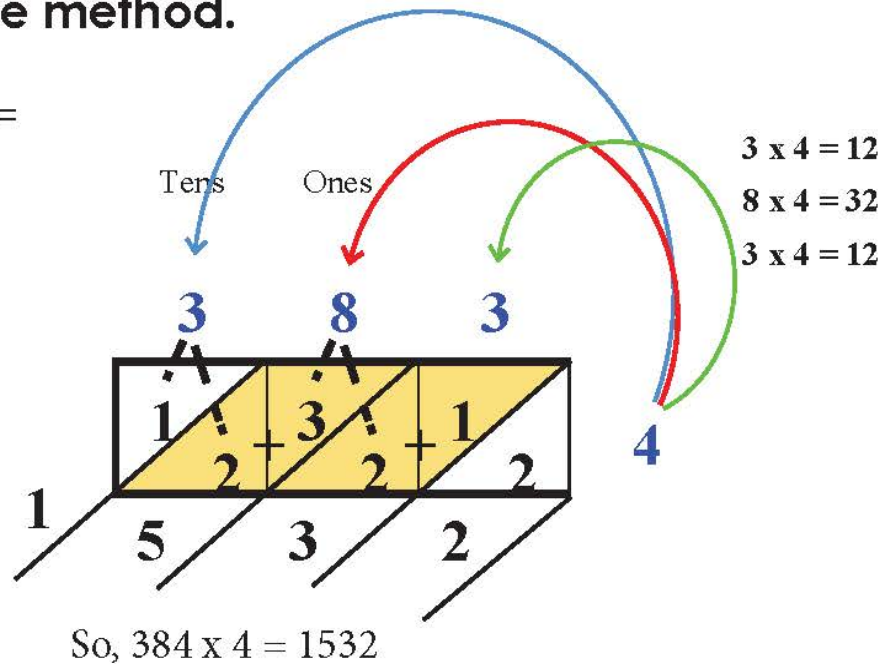
Lesson 7

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. $455 \times 6 =$

--	--	--	--

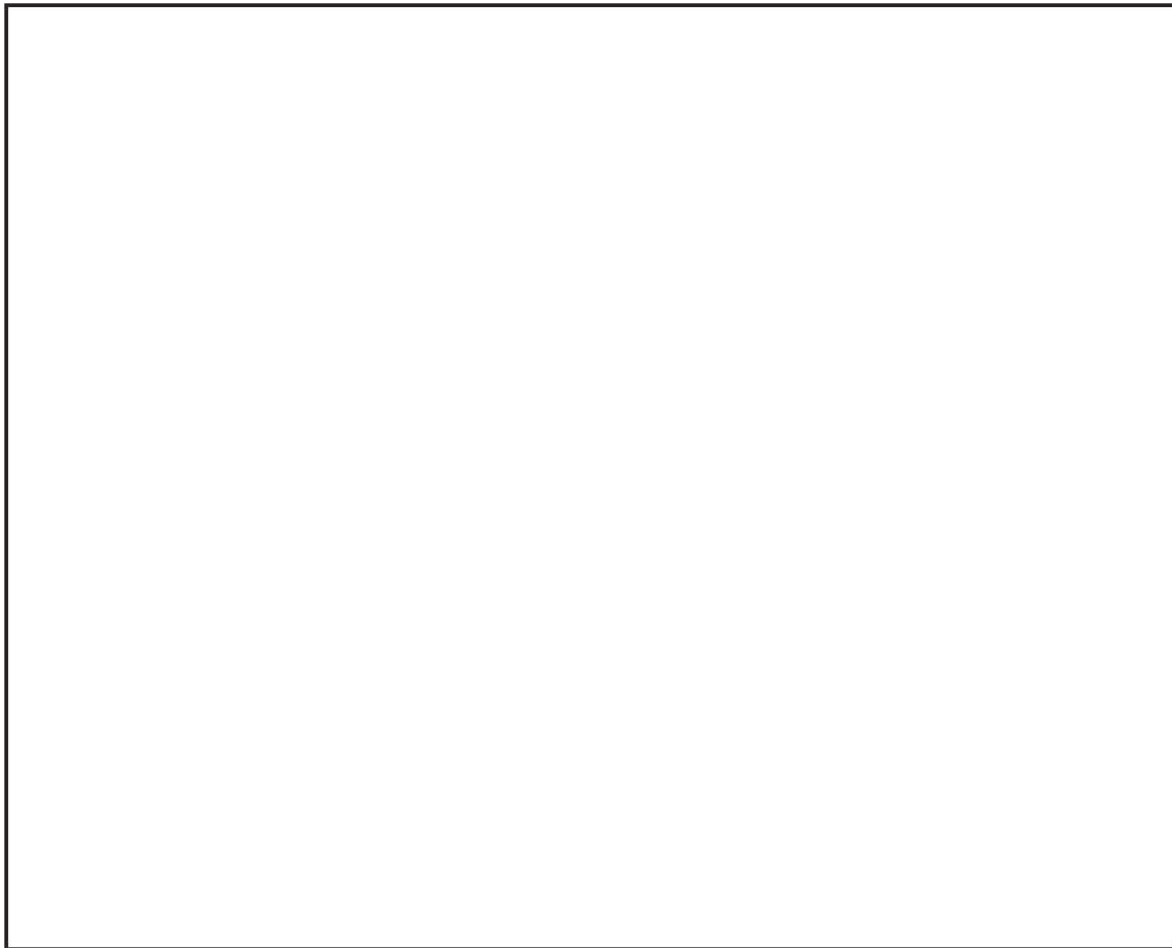
So, $455 \times 6 =$

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: $318 \div 3 =$

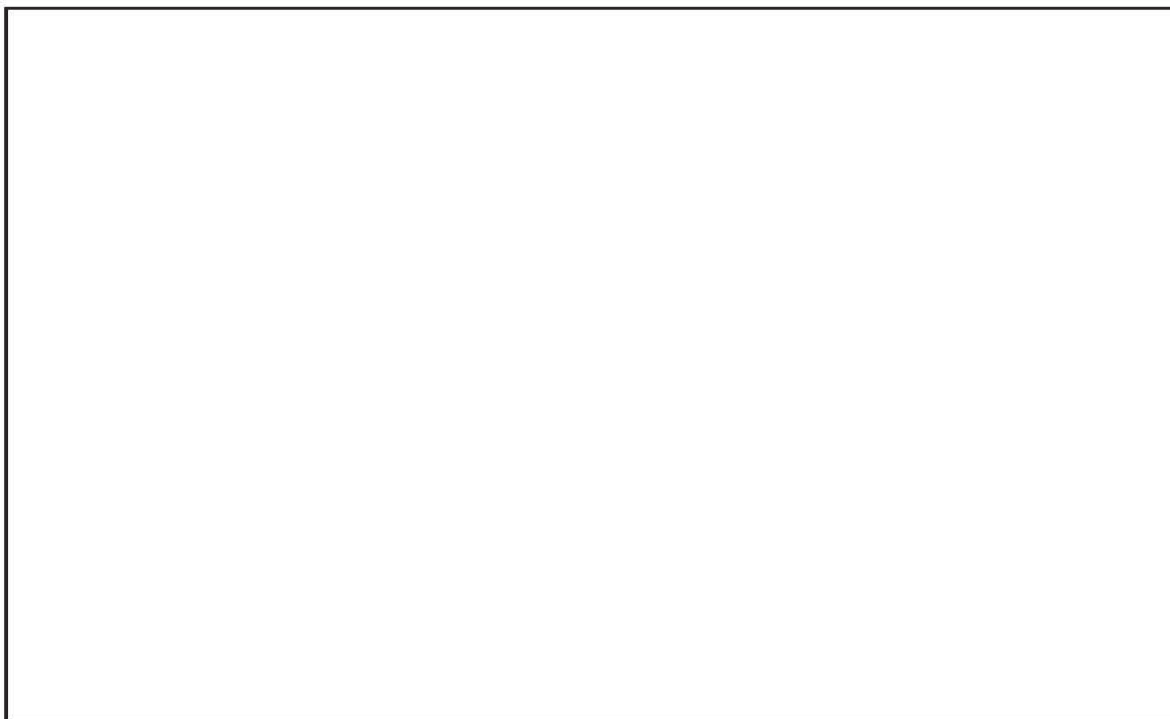
3	1	8	100
-3	0	0	
	1	8	6
-1	8		
	0		100 + 6 = 106

So, $318 \div 3 = 106$

a. $120 \div 6 =$

So, $120 \div 6 =$

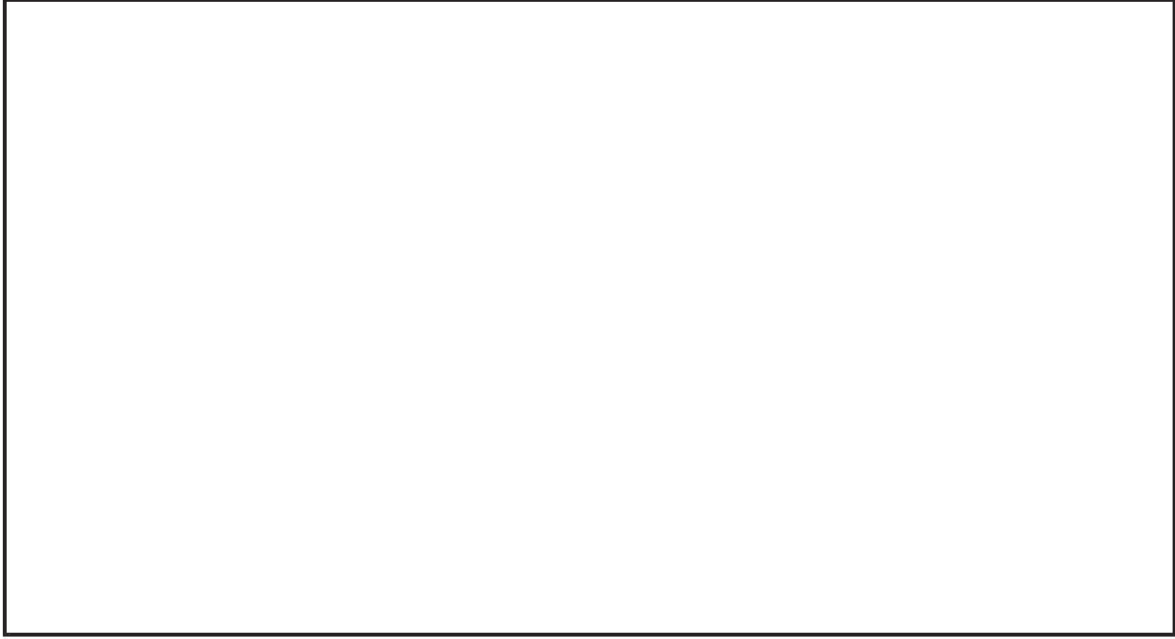
b. $279 \div 9 =$



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?



MODULE 4

Lesson 1

Place Value of numbers up to 10,000

Activity 5D

Task 1: Write the value of each digit in the number given.

523

Value of 5 =
Value of 2 =
Value of 3 =

Task 2: Write the position/place and the value of each digit in the number 4531

Digit	Position/place	Value
4	Thousands (1000s)	4000
5		
3		
1		

DL Workbook

Task 2: Model two different number values using the given digits.

Example: 2,456

thousands	hundreds	tens	Ones
2	5	6	4

thousands	hundreds	tens	Ones
2	4	6	5

a. 2,437

thousands	hundreds	tens	Ones

thousands	hundreds	tens	Ones

b. 1,734

thousands	hundreds	tens	Ones

thousands	hundreds	tens	Ones

c. 7,612

thousands	hundreds	tens	Ones

thousands	hundreds	tens	Ones

Lesson 2

Addition sum up to 999

Activity 9D,6D

Task 1: Solve the following addition problems.

a.

	Hundreds	tens	ones
	2	3	5
+	1	4	2
=			

b.

	Hundreds	tens	ones
	1	0	1
+	3	6	9
=			

c.

	Hundreds	tens	ones
	5	0	9
+	4	0	6
=			

d.

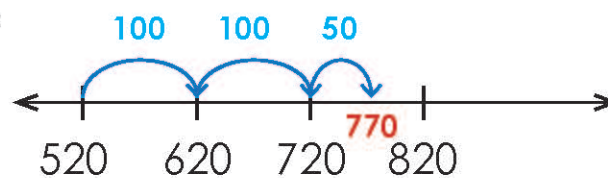
	Hundreds	tens	ones
	3	7	1
+	3	3	7
=			

Task 2: Addition sum up to 9999

Solve the addition problems using "friendly jumps".

For example, $520 + 250 =$

To do $520 + 250$, think



So, $520 + 250 = 770$

a. $730 + 140 =$

d. $860 + 504 =$

Lesson 3

Subtraction of two 3-digit numbers

Activity 12F 12 E and 12 D

Task 1: Solve the addition problems using the decomposition method.

For example, $543 - 212 =$

$$\begin{array}{r}
 500 + 40 + 3 \\
 - 200 + 10 + 2 \\
 \hline
 300 + 30 + 1 = 331
 \end{array}$$

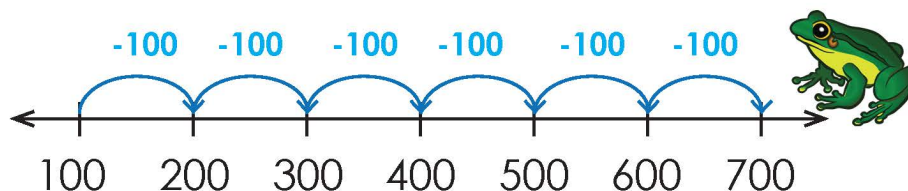
So, $543 - 212 = 331$

a. $694 - 521$

b. $928 - 215$

Task 2: Solve the subtraction problems using (friendly jumps).

Example; $700 - 500 =$



So, $700 - 500 = 200$

a. $940 - 240$

a. $530 - 450$

Lesson 4

Addition word problems

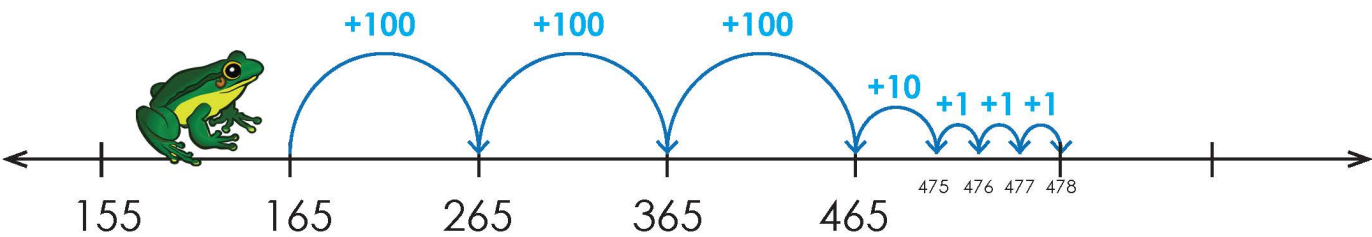
Activity 6E, 8E and 9D

Task 1: Write mathematical sentences for the following any correct strategy.

Example:

There were 165 boys and 313 girls at an inter-school sports competition. How many pupils attended the games?

Mathematics sentence $165 + 313 =$



So, $165 + 313 = 478$

- a. At a COVID-19 testing centre, 155 people tested negative for COVID-19 and 730 people tested positive. How many people were tested altogether?

- b. Mr Alhasan sold 750 bags of rice in the morning and 233 bags in the evening. How many bags did he sell altogether?

Activity 12E, 12C, 12D, 12E, 13E

Task 2: Write mathematical sentence for the following subtraction word problems and solve.

- a. Out of 870 learners in a school, 344 are boys. How many learners are girls?

- b. 970 seedlings are to be planted at Darko Farms.
510 seedlings were planted after three days.
How many more seedlings are still left to be planted?

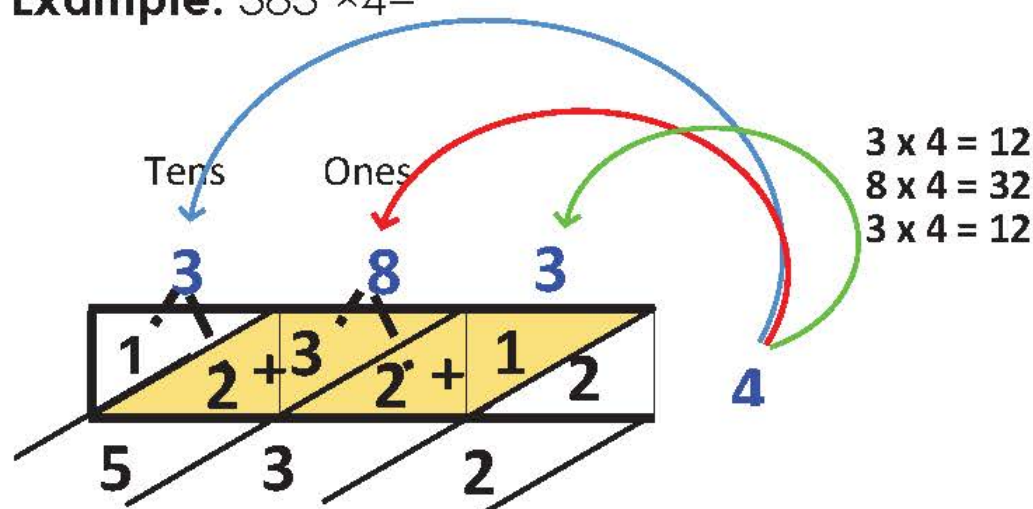
Lesson 5

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

Activity 18C

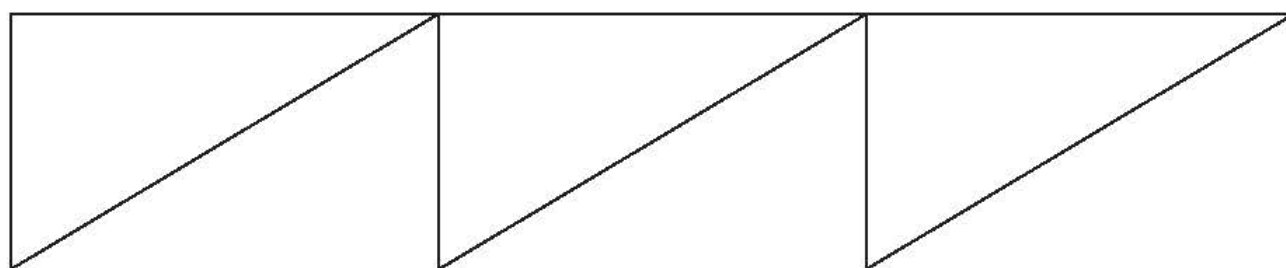
Task 1: Solve the following multiplication problems using the lattice method.

Example: $383 \times 4 =$

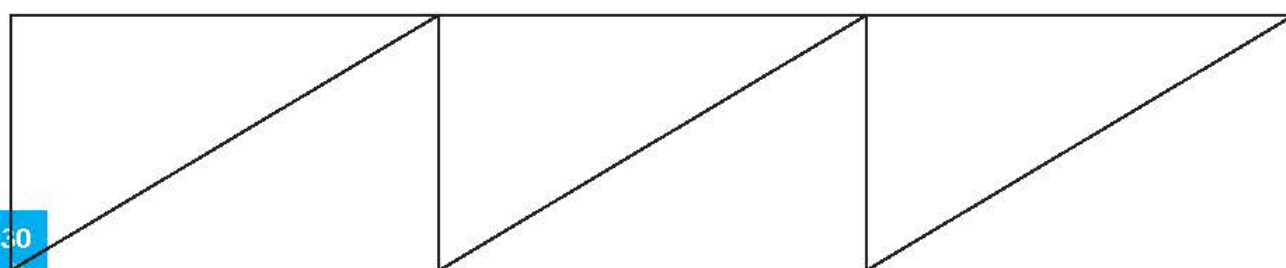


So, $383 \times 4 = 1532$

a. 442×2



b. 125×3



Task 2: Solve the multiplication problems using the decomposition method

Example: $482 \times 3 =$

400	80	2	
$400 \times 3 = 1200$	$80 \times 3 = 240$	$2 \times 3 = 6$	3

$$1200 + 240 + 6 = 1,446$$

$$\text{So, } 482 \times 3 = 1,446$$

a. $544 \times 4 =$

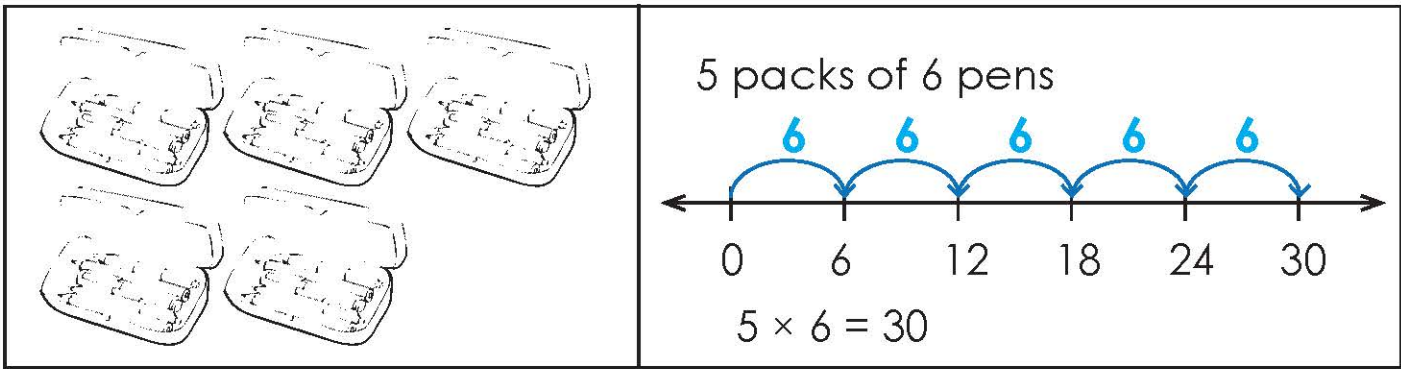
b. $375 \times 5 =$

Modelling multiplication word problem involving a 3-digit by 1-digit number

Activity17D

Task 1: Model the multiplication word problems and solve.

Example: A pack contains 6 pens. How many pens are in 5 packs?



- a. There are 15 toffees in a box. How many toffees are there in 3 of such boxes?

- b. 11 paper clips measure one pencil as shown.
How many paper clips will measure four of such pencils



Lesson 7

Division of whole numbers

Activity 22, 23, 2E

22E

Task 1: Use “repeated subtraction” to solve the following division problems.

Example: $144 \div 24 = 5$

$144 - 24 = 120$	①
$120 - 24 = 96$	②
$96 - 24 = 72$	③
$72 - 24 = 48$	④
$48 - 24 = 24$	⑤
$24 - 24 = 0$	6

So, $144 \div 24 = 6$

a. $120 \div 30 =$

b. $350 \div 50 =$

Task 2: Use “Big 7” strategy to solve the following division problems.

Example: $156 \div 12 =$

12		1	5	6		
		-	1	2	0	
					10	
			3	6	+	
			-	3	6	
						3
				0		
					13	

So, $156 \div 12 = 13$

a. $143 \div 11 =$

b. $180 \div 15 =$

Division word problems involving whole numbers

Activity 23C, 23D1, 21D, 23D2 and 23E

Tasks 1: Solve the following division word problems.

Example: A class teacher shared 165 exercise books equally among 15 pupils. How many did each pupil get?

165 ÷ 15 =

Repeated subtraction	"Big 7" strategy
165 - 15 = 150 1 150 - 15 = 135 2 135 - 15 = 120 3 120 - 15 = 105 4 105 - 15 = 90 5 90 - 15 = 75 6 75 - 15 = 60 7 60 - 15 = 45 8 45 - 15 = 30 9 30 - 15 = 15 10 15 - 15 = 0 11	15 165 -150 15 -15 0 So, 165 ÷ 15 = 11

a. 144 handkerchiefs were shared equally among 24 attendants at a birthday party. How many did each get?

- b. 121 pieces of biscuits were packed equally into 11 boxes. How many biscuits will be in each box?

- c. A teacher has 300 exercise books to be shared equally among 60 learners. How many will each learner receive?

MODULE 5

Lesson1

Place value of numbers (100,000 – 1,000,000)

Activity 4E

Task 1: Write the value of each digit in the number given.

a. 7,263

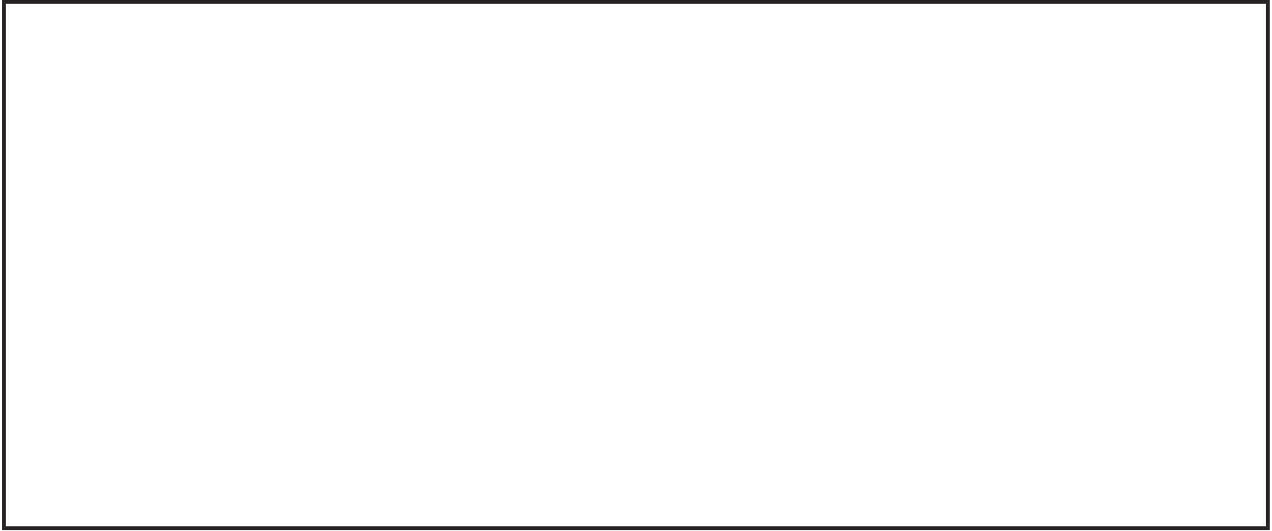
Value of 7 =
Value of 2 =
Value of 6 =
Value of 3 =

b. Write the position/place and the value of each digit in the number 866236.

Digit	Positiom/Place	Value
8	Hundred Thousands (100,000s)	800,000
6		
6		
2		
3		
6		

- c. Use $<$, $>$ or $=$ to compare and order the numbers in descending order.

6,800, 7,500, 8,000, 6,050, 6,005



- d. Expand the number 921, 336



Task 2: Model the digits on the place value chart to obtain different values, then compare them.

Example: 24756

Ten thousand	thousands	hundreds	tens	Ones
7	2	5	6	4

>

Ten thousand	thousands	hundreds	tens	Ones
2	7	4	6	5

a. 62237

Ten thousand	thousands	hundreds	tens	Ones

Ten thousand	thousands	hundreds	tens	Ones

b. 19734

Ten thousand	thousands	hundreds	tens	Ones

Ten thousand	thousands	hundreds	tens	Ones

c. 79895

Ten thousand	thousands	hundreds	tens	Ones

Ten thousand	thousands	hundreds	tens	Ones

Lesson 2

Addition sum up to 9999

Activity 9E

Task 1: Solve the following addition problems.

a.

	thousands	hundreds	tens	Ones
	4	5	3	8
+		3	4	6
=				

b.

	thousands	hundreds	tens	Ones
	1	9	6	1
+		3	0	2
=				

Find the value of the *

c.

	thousands	hundreds	tens	Ones
	7	7	0	6
+		4	0	9
=				

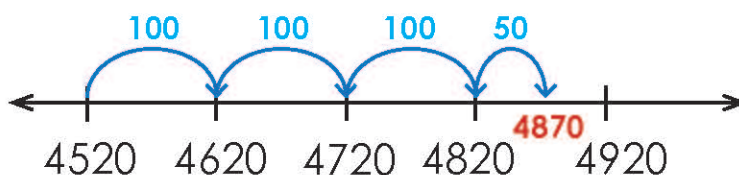
d.

	thousands	hundreds	tens	Ones
	9	1	9	1
+		6	*	7
=	9	8	0	8

Task 2: Solve the following addition problems using “friendly jumps”.

For example: $4520 + 350 =$

To do $4520 + 350$, think



So, $4520 + 350 = 4870$

a. $4558 - 520 =$

b. $6000 + 230 =$

Lesson 3

Subtraction of whole numbers

Activity 13E

Task 1: Solve the following subtraction problems using the decomposition strategy.

For example $7543 - 212 = 7331$

$$\begin{array}{r} 7000 + 500 + 40 + 3 \\ - \quad \quad \quad 200 + 10 + 2 \\ \hline 7000 + 300 + 30 + 1 = \mathbf{7331} \end{array}$$

a. $6449 - 521$

b. $9322 - 211$

Task 2: Solve the following subtraction problems using the “decomposition strategy.”

Example; $7346 - 221$

$$\begin{array}{r}
 7000 + 300 + 40 + 6 \\
 - \quad \quad \quad 200 + 20 + 1 \\
 \hline
 7000 + 100 + 20 + 5 = 7000 + 100 + 20 + 5 = 7125
 \end{array}$$

a. $9349 - 248 =$

b. $8472 - 3521 =$

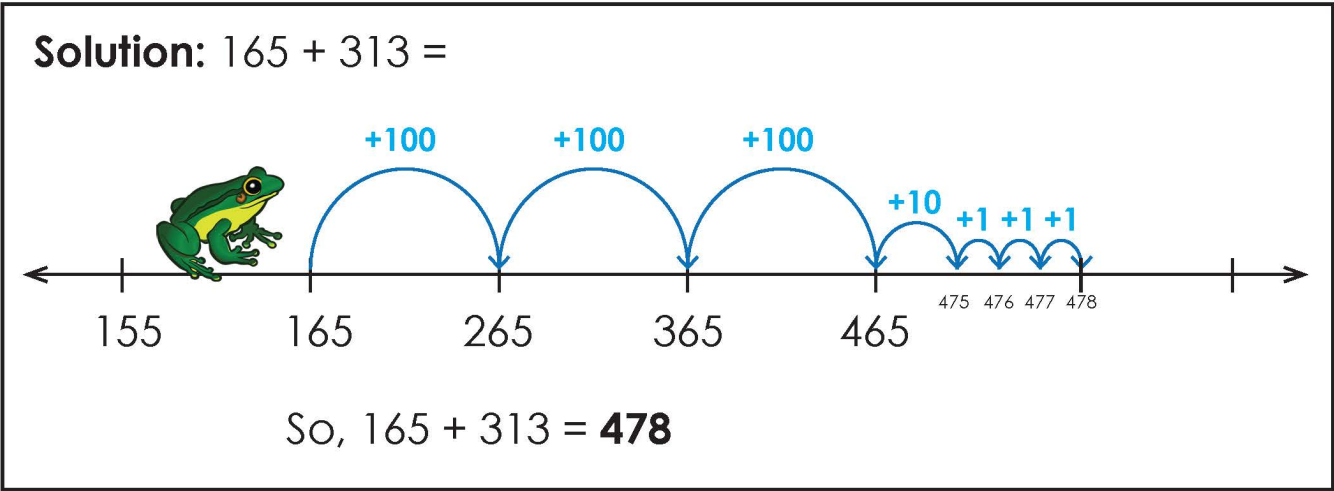
Addition and Subtraction word problems

Activity 8E

Task 1: Write mathematical sentences for the following addition word problems and solve.

Example:

165 males and 313 females voted in Akweley electoral area. How many people voted altogether?



- a. 455 people were tested for COVID-19.
1,230 more people were tested.
How many people were tested altogether?

- b. A food vendor sold Gh¢750 worth of rice dish and Gh¢1,230 worth of other dishes. How much did the vendor sell altogether?

Activity 9E/12E/13E

Task 2: Write mathematical sentence for the following subtraction word problems. Use any subtraction strategy to solve it.

- a. 1200 trees were planted. 350 of the trees died. How many survived?

- b. 8,970 eggs were laid. If 211 of them got broken, how many eggs are left?

Lesson 5

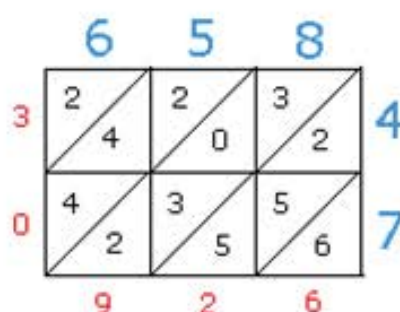
Addition and Subtraction word problems

Activity 18E

Task 1: Multiply a 3-digit number by a 2-digit number.

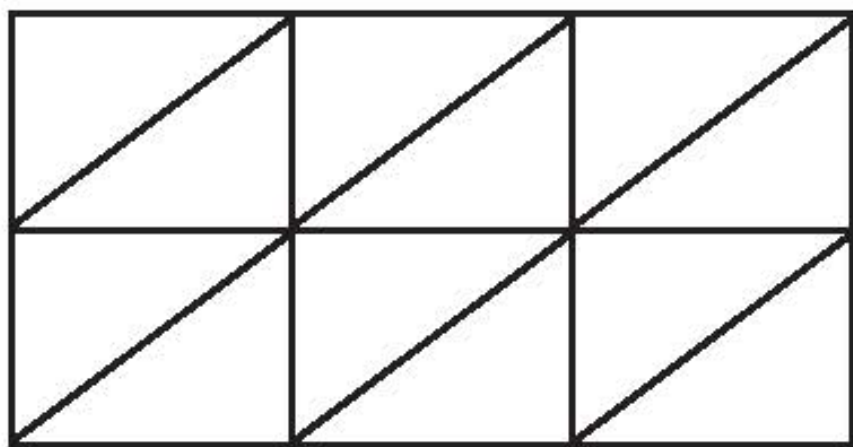
Solve the following multiplication problems using the lattice method.

Example: $658 \times 47 =$

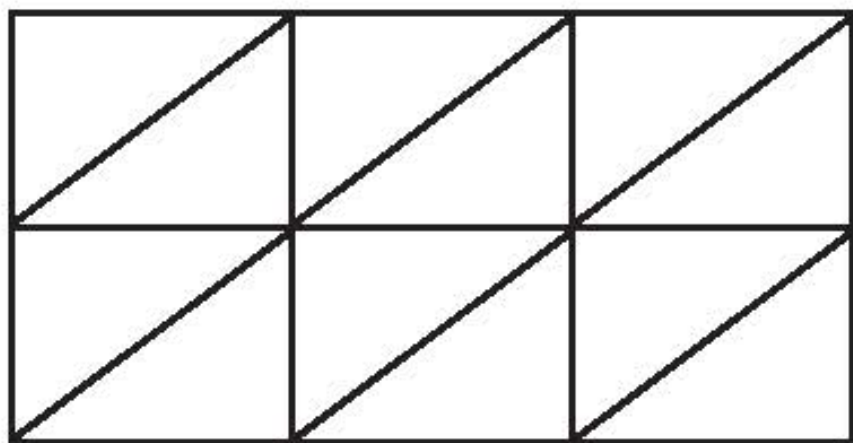


So, $658 \times 47 = 30,926$.

a. $422 \times 25 =$



a. $325 \times 25 =$



Task 2: Multiply a 3-digit number by a 2-digit number.

Solve the multiplication problems using the decomposition method

Example: $352 \times 22 =$

Partition Frame

x	300	50	2
20	6000	1000	40
2	600	100	4

6600 1100 44

$$6600 + 1100 + 44 = 7744$$

So, $352 \times 22 = 7,744$.

g. $450 \times 43 =$

Sl. No.	Particulars	Amount
1	...	...
2	...	...
3	...	...
4	...	...
5	...	...
6	...	...
7	...	...
8	...	...
9	...	...
10	...	...
11	...	...
12	...	...
13	...	...
14	...	...
15	...	...
16	...	...
17	...	...
18	...	...
19	...	...
20	...	...
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93	...	...
94	...	...
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96	...	...
97	...	...
98	...	...
99	...	...
100	...	...

b. $375 \times 50 = ?$



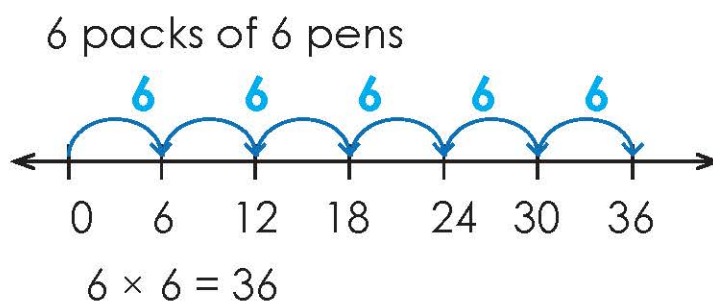
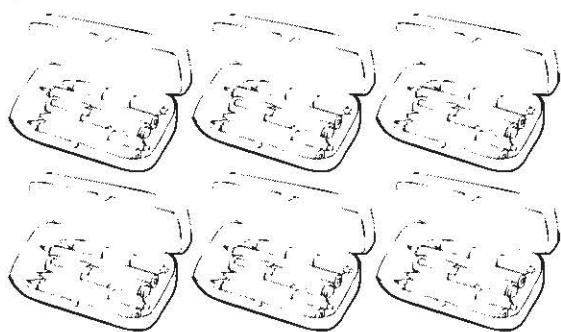
Modelling multiplication word problems.

Activity 18E

Task: Model the following multiplication word problems and solve.

Example: A pack contains 6 pens. How many pens are in 6 packs?

Solution:



- a. A box contains 12 bottles of mineral water. How many of the bottles will be in 4 boxes?

b.



The glass bottle can hold 1 L of water.

The bucket can hold 8 times the amount of water that the glass bottle can hold.

The basin can hold 2 times the amount of water that the bucket can hold.

How much litres of water can the basin hold?

Task 2: Multiply a 3-digit number by a 2-digit number.

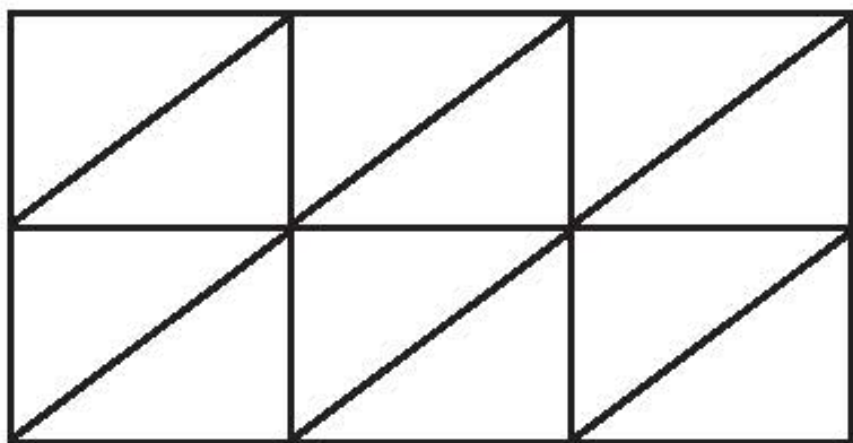
Solve the following multiplication problems using the lattice method.

Example: $658 \times 47 =$

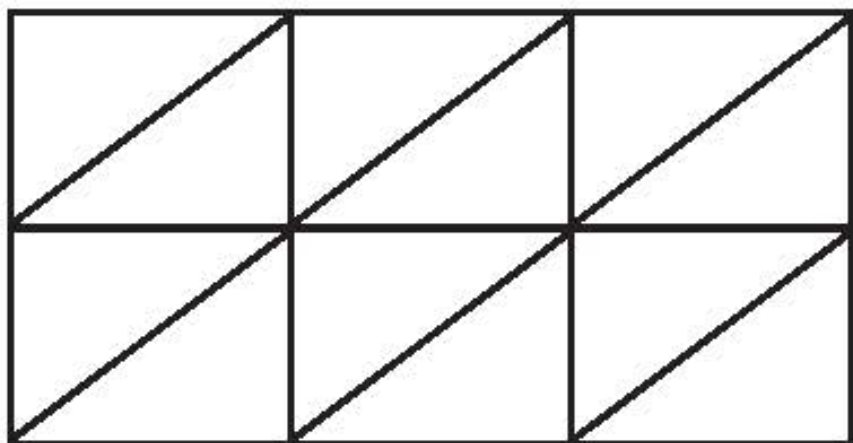
	6	5	8	
3	2 4	2 0	3 2	4
0	4 2	3 5	5 6	7
	9	2	6	

So, $658 \times 47 = 30,926$.

a. $422 \times 25 =$



a. $325 \times 25 =$



Lesson 7

Division of numbers

Activity 22B-E

Task1: “Use repeated subtraction” strategy to solve the following division problems.

E.g. $140 \div 20 =$

$140 - 20 = 120$	1
$120 - 20 = 100$	2
$100 - 20 = 80$	3
$80 - 20 = 60$	4
$60 - 20 = 40$	5
$40 - 20 = 20$	6
$20 - 20 = 0$	7

So, $140 \div 20 = 7$

a. $180 \div 30 =$

b. $240 \div 40 =$

Task 2: Use “Big 7” strategy to solve the following division problems.

Example: $156 \div 12 =$

$$\begin{array}{r|rrr}
 12 & 1 & 5 & 6 \\
 - & 1 & 2 & 0 \\
 \hline
 & & 3 & 6 \\
 - & & 3 & 6 \\
 \hline
 & & & 0
 \end{array}
 \begin{array}{l}
 10 \\
 + \\
 3 \\
 \hline
 13
 \end{array}$$

$$156 \div 12 = 13$$

a. $252 \div 14 =$

b. $195 \div 13 =$

Lesson 8

Division word problems involving whole numbers

Activity 23E D2

Task: Solve the following word problems using any strategy.

Example: A teacher shared 165 exercise books equally among 15 learners. How many will each pupil get?

$165 \div 15 =$

Repeated strategy	“Big 7” strategy																																										
<table style="width: 100%; border-collapse: collapse;"><tr><td style="width: 80%;">$165 - 15 = 150$</td><td style="width: 20%; text-align: right; color: green;">1</td></tr><tr><td>$150 - 15 = 135$</td><td style="text-align: right; color: green;">2</td></tr><tr><td>$135 - 15 = 120$</td><td style="text-align: right; color: green;">3</td></tr><tr><td>$120 - 15 = 105$</td><td style="text-align: right; color: green;">4</td></tr><tr><td>$105 - 15 = 90$</td><td style="text-align: right; color: green;">5</td></tr><tr><td>$90 - 15 = 75$</td><td style="text-align: right; color: green;">6</td></tr><tr><td>$75 - 15 = 60$</td><td style="text-align: right; color: green;">7</td></tr><tr><td>$60 - 15 = 45$</td><td style="text-align: right; color: green;">8</td></tr><tr><td>$45 - 15 = 30$</td><td style="text-align: right; color: green;">9</td></tr><tr><td>$30 - 15 = 15$</td><td style="text-align: right; color: green;">10</td></tr><tr><td>$15 - 15 = 0$</td><td style="text-align: right; color: green;">11</td></tr></table>	$165 - 15 = 150$	1	$150 - 15 = 135$	2	$135 - 15 = 120$	3	$120 - 15 = 105$	4	$105 - 15 = 90$	5	$90 - 15 = 75$	6	$75 - 15 = 60$	7	$60 - 15 = 45$	8	$45 - 15 = 30$	9	$30 - 15 = 15$	10	$15 - 15 = 0$	11	$15 \overline{) 165}$ <table style="border-collapse: collapse;"><tr><td style="border-right: 1px solid black; padding: 5px 10px;">1</td><td style="padding: 5px 10px;">6</td><td style="padding: 5px 10px;">5</td><td></td></tr><tr><td style="border-right: 1px solid black; padding: 5px 10px;">-1</td><td style="padding: 5px 10px;">5</td><td style="padding: 5px 10px;">0</td><td style="padding: 5px 10px; color: red;">10</td></tr><tr><td colspan="3" style="border-top: 1px solid black; border-right: 1px solid black; padding: 5px 10px;">1</td><td style="padding: 5px 10px; color: red;">+</td></tr><tr><td style="border-right: 1px solid black; padding: 5px 10px;">-1</td><td style="padding: 5px 10px;">5</td><td style="padding: 5px 10px;">5</td><td style="padding: 5px 10px; color: red;">1</td></tr><tr><td colspan="3" style="border-top: 1px solid black; border-right: 1px solid black; padding: 5px 10px;">0</td><td style="padding: 5px 10px; color: green;">11</td></tr></table>	1	6	5		-1	5	0	10	1			+	-1	5	5	1	0			11
$165 - 15 = 150$	1																																										
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$135 - 15 = 120$	3																																										
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-1	5	5	1																																								
0			11																																								

So, $165 \div 15 =$

- a. 225 parcels were shared equally among 15 attendants at a birthday party. How many did each get?



