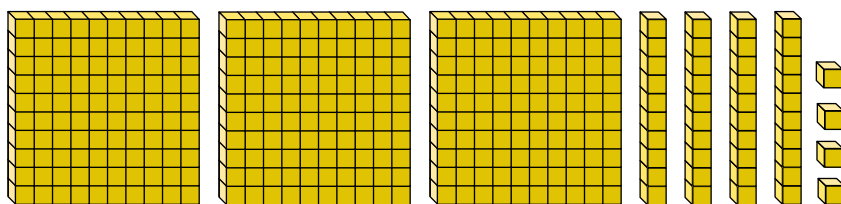


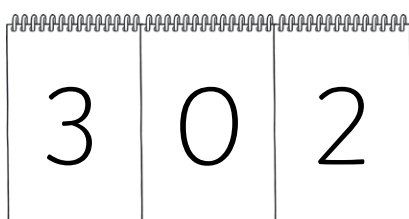


1) Jack has made this number:



- a) What is 10 more? _____ b) What is 10 less? _____
 c) What is 100 more? _____ d) What is 100 less? _____

2) Now Jack has made a new number.



How many hundreds, tens and ones would it have if he found...

- a) 10 more = _____ hundreds, _____ tens and _____ ones
 b) 10 less = _____ hundreds, _____ tens and _____ ones
 c) 100 more = _____ hundreds, _____ tens and _____ ones
 d) 100 less = _____ hundreds, _____ tens and _____ ones

3) Fill in the gaps and write the missing rules.

a) 10 more

63	73		93		
----	----	--	----	--	--

b) 10 less

121		101		81	
-----	--	-----	--	----	--

c) _____

139	149			179	
-----	-----	--	--	-----	--

d) _____

405	505			805	
-----	-----	--	--	-----	--

e) _____

722		522	422		
-----	--	-----	-----	--	--


f) _____

684		884	984		
-----	--	-----	-----	--	--




1)

My number is ten less than Chloe's number.




Sam

My number is 602.



Pia


My number is 1 hundred more than Pia's number.




Chloe

What are Sam and Chloe's numbers? Sam _____ Chloe _____

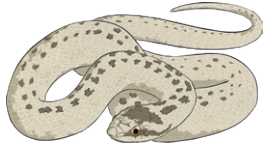
2) The snake can only move 100 more each time. It can move up, down, sideways or diagonally. Circle the boxes to show the snake the path to the end.



Start 314	324	334	335	914	954
315	414	424	535	904	994
554	514	614	564	814	914
654	524	515	714	715	1014
704	824	1234	1214	1114	1024
855	825	1324	1314	1414	End 1514



3) Molly's pet snake will grow 100mm every week. It is 26mm long now. She says, "I know the biggest he can get is 926mm, because after that there are no more hundreds numbers".



Explain her mistake.



1)

a) I'm thinking of a number.

My number has 25 tens and 3 ones. What is 100 less than my number?

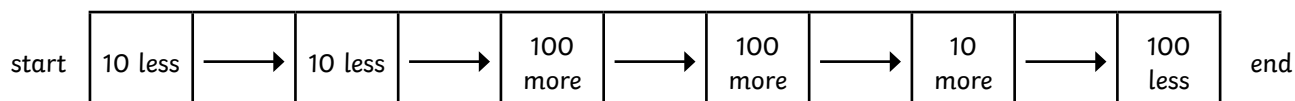
b) I'm thinking of another number.

My number is ten less than 468. What is 100 more than my number?



c) Think of a 3-digit number. Write a more or less clue for your partner to solve.

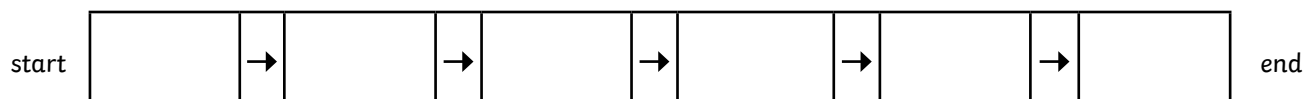
2) Here is a pathway to get from one number to another, using 10 and 100 less and more:



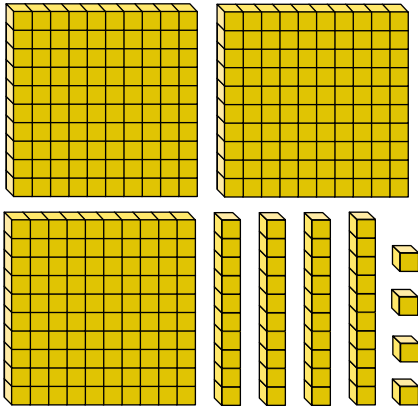
a) If the start number was 321, what would be the end number?

b) If the end number was 972, what would be the start number?

c) Write a pathway with 6 steps to get from 822 to 712.



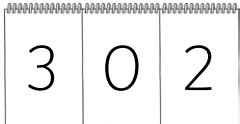
1) Jack has made this number:



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- a) What is 10 more?
- b) What is 10 less?
- c) What is 100 more?
- d) What is 100 less?

2) Now Jack has made a new number.



How many hundreds, tens and ones would it have if he found...

- a) 10 more = __ hundreds, __ tens and __ ones
- b) 10 less = __ hundreds, __ tens and __ ones
- c) 100 more = __ hundreds, __ tens and __ ones
- d) 100 less = __ hundreds, __ tens and __ ones

3) Fill in the gaps and write the missing rules.

a) 10 more

62	73		93		
----	----	--	----	--	--

b) 10 less

121		101		81	
-----	--	-----	--	----	--

c) _____

139	149			179	
-----	-----	--	--	-----	--

d) _____

405	505			805	
-----	-----	--	--	-----	--

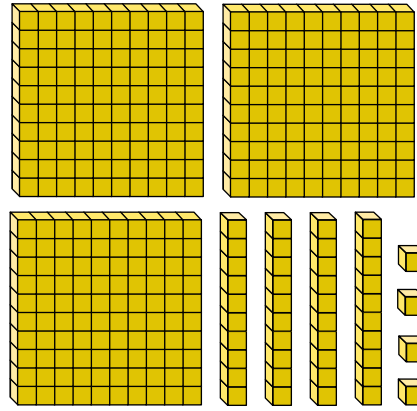
e) _____

722		522	422		
-----	--	-----	-----	--	--

f) _____

684		884	984		
-----	--	-----	-----	--	--

1) Jack has made this number:



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How many hundreds, tens and ones would it have if he found...

- a) 10 more = __ hundreds, __ tens and __ ones
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- c) 100 more = __ hundreds, __ tens and __ ones
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62	73		93		
----	----	--	----	--	--

b) 10 less

121		101		81	
-----	--	-----	--	----	--

c) _____

139	149			179	
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e) _____

722		522	422		
-----	--	-----	-----	--	--

f) _____

684		884	984		
-----	--	-----	-----	--	--

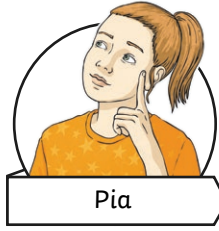


My number is ten less than Chloe's number.

My number is 602.



Sam



Pia

My number is 1 hundred more than Pia's number.



Chloe

What are Sam and Chloe's numbers?

- 2) The snake can only move 100 more each time. It can move up, down, sideways and diagonally. Circle the boxes to show the snake the way to the end.



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704	824	1234	1214	1114	1024
855	825	1324	1314	1414	End 1514

- 3) Molly's pet snake will grow 100mm every week. It is 26mm long now. She says, "I know the biggest he can get is 926mm, because after that there are no more hundreds numbers".

Explain her mistake.



1)

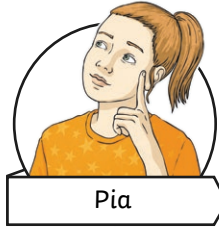


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My number is 1 hundred more than Pia's number.



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- 3) Molly's pet snake will grow 100mm every week. It is 26mm long now. She says, "I know the biggest he can get is 926mm, because after that there are no more hundreds numbers".

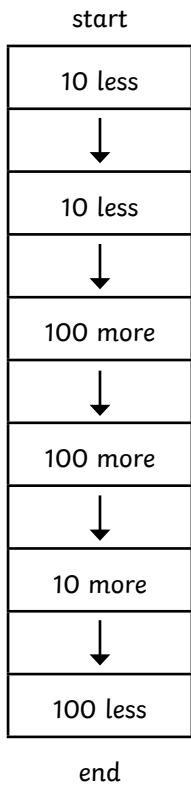
Explain her mistake.





- a) I'm thinking of a number.
My number has 25 tens and 3 ones.
What is 100 less than my number?
- b) I'm thinking of another number.
My number is ten less than 468. What is 100 more than my number?
- c) Think of a 3-digit number. Write a more or less clue for your partner to solve.

2) Here is a pathway to get from one number to another, using 10 and 100 less and more:

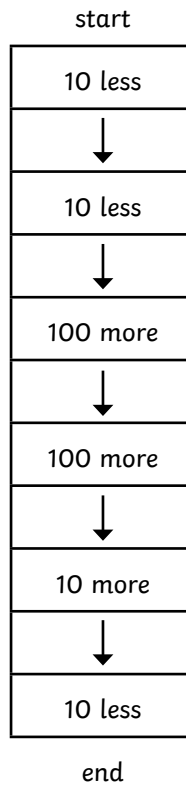


- a) If the start number was 321, what would be the end number?
- b) If the end number was 972, what would be the start number?
- c) Write a pathway with 6 steps to get from 822 to 712.



- 1)
- a) I'm thinking of a number.
My number has 25 tens and 3 ones.
What is 100 less than my number?
 - b) I'm thinking of another number.
My number is ten less than 468. What is 100 more than my number?
 - c) Think of a 3-digit number. Write a more or less clue for your partner to solve.

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- a) If the start number was 321, what would be the end number?
- b) If the end number was 972, what would be the start number?
- c) Write a pathway with 6 steps to get from 822 to 712.



- 1) a) **354**
 b) **334**
 c) **444**
 d) **244**
- 2) a) 10 more = **3** hundreds, **1** tens and **2** ones
 b) 10 less = **2** hundreds, **9** tens and **2** ones
 c) 100 more = **4** hundreds, **0** tens and **2** ones
 d) 100 less = **2** hundreds, **0** tens and **2** ones
- 3) a) 63, 73, **83**, 93, **103**, **113** b) 121, 111, 101, **91**, 81, 71
 c) 139, 149, **159**, **169**, 179, **189** d) 405, 505, **605**, **705**, 805, **905**
 e) 722, **622**, 522, 422, **322**, **222** f) 684, **784**, 884, 984, **1084**, **1184**



- 1) **Sam = 692**
Chloe = 702

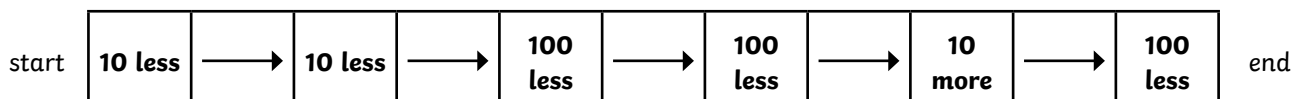
2)

Start 314	324	334	335	914	954
315	414	424	535	904	994
554	514	614	564	814	914
654	524	515	714	715	1014
704	824	1234	1214	1114	1024
855	825	1324	1314	1414	End 1514

- 3) **Numbers after 1000 still have hundreds digits. 100 more than 926 will be 1026.**



- 1) a) **153**
 b) **558**
 c) **Multiple possible answers.**
- 2) a) **411**
 b) **882**
 c) **Multiple possible answers, for example:**





1) 0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96

2) a) b) c)

3) a) 48 40 32 24 16 8 0 ✓

b) 24 32 36 40 48 56
24 32 40 48 56 64

c) 16 24 32 40 46 54
16 24 32 40 48 56

d) 56 48 40 32 26 18
56 48 40 32 24 16

1) Numbers given are examples. Other numbers can also be correct.



a) Multiples of eight do not have odd digits. False	Possible answers: 16 56	b) Multiples of eight are also always multiples of two. True	Possible answers: 24 96
c) Multiples of eight are never multiples of five. False	Possible answers: 40 80	d) When you add the digits of 2-digit multiples of eight, the total will always be an even number. False	Possible answers: 32 56
e) Multiples of eight are also always multiples of four. True	Possible answers: 8 48		

2) No. Petra's number needs to be less than Leo's but still greater than 30. There is not a multiple of eight between 30 and 32. Leo's number could be 40 or 48.

1) a) 24 40 64 ✓
b) 16 32 56
c) 16 40 64 ✓

b) It cannot be set b because, when you add the digits of the largest number together, it does not total ten.

2) 8 16 24 40 56 64





- 1) a) 4, 8, **12**, 16, **20**, 24, **28**
b) 16, 20, **24**, **28**, 32, **36**, **40**
c) 32, 28, **24**, 20, **16**, **12**, 8
d) 40, **36**, 32, **28**, **24**, 20, 16
- 2) a) **Multiples of 4:** (15) 20✓ 32✓ 36✓ (18) 44✓
Not Multiples of 4: 17✓ 22✓ (32) (16) 21✓ 39✓
- b) **2 additional multiples of 4 added to first pond.**
2 additional numbers which are not multiples of 4 added to second pond.



- 1) **Khatija is not correct. She will need 9 boxes.**
Children write an explanation using words or pictures which shows that $4 \times 9 = 36$.
- 2) a)

A multiple of 4 will never be an odd number.	No. Explanation through examples or words to show that odd numbers are not multiples of 4. Example answer: All multiples of 4 are also multiples of 2 and multiples of 2 are never odd numbers.
--	--
- b)

All even numbers are multiples of 4.	No. Explanation through examples or words to show that not all numbers are multiples of 4. Example answer: Here are some even numbers which are not multiples of 4: 2, 6, 10
--------------------------------------	---
- c)

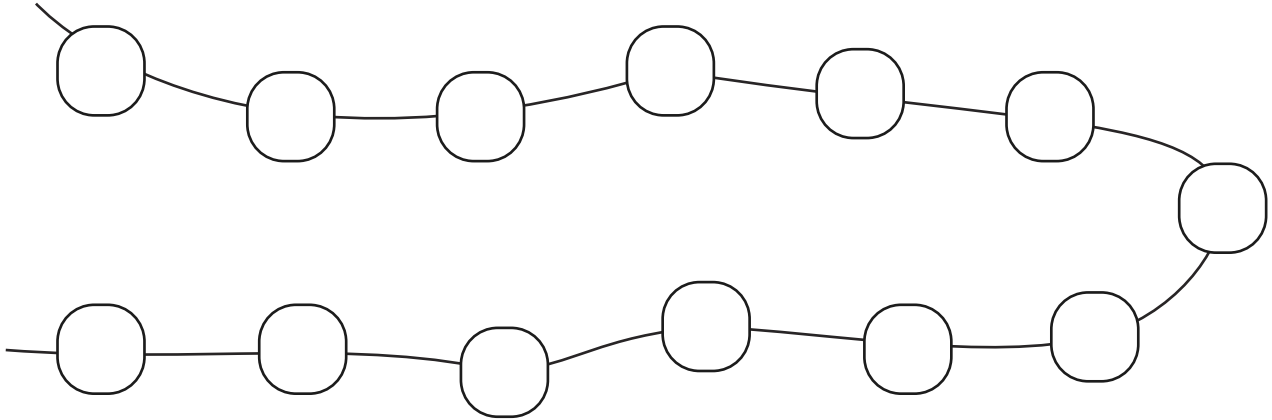
There are 10 multiples of 4 which are less than 45.	No. Explanation through examples or words to show that there are 11 multiples of 4 which are less than 45. Example answer: 4, 8, 12, 16, 20, 24, 28, 32, 40, 44 – 11 multiples of 4
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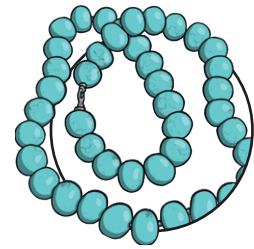
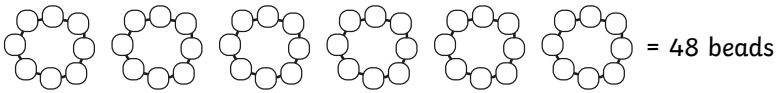
- 1) a) **8, 12, 16.**
b) **12, 16, 20, 24, 28**
c) **24, 28, 32, 36, 40, 44, 48, 52, 56**
- 2) a) **32**
b) **36**
c) **20**
- 3) **Children write their own clues that would give the answer 24.**



1) Starting at zero, write multiples of 8 on the beads.



2) Here are some bracelets. Each bracelet has 8 beads.



Draw the bracelets for these amounts of beads:

a) 56 beads

b) 24 beads

c) 40 beads

--	--	--

3) Leo has used beads to count forwards and backwards in multiples of 8. Tick the correct sequences. If he has made a mistake, write the correct sequence next to it.

a) 48 40 32 24 16 8 0 _____

b) 24 32 36 40 48 56 _____

c) 16 24 32 40 46 54 _____

d) 56 48 40 32 26 18 _____



1) Here are some statements about multiples of 8. Decide whether each statement is true or false and give 2 examples to support your answer.

Statement	True	False	Two Examples
a) Multiples of eight do not have odd digits.			
b) Multiples of eight are also always multiples of two.			
c) Multiples of eight are never multiples of five.			
d) When you add the digits of 2-digit multiples of eight, the total will always be an even number.			
e) Multiples of eight are also always multiples of four.			

2) Two friends have each written down a different multiple of eight.



My multiple of eight is greater than 30 and it is less than Leo's multiple of eight.

My multiple of eight is less than 50.



Could Leo's number be 32? Explain why you think this.



1) Sophia has written down three multiples of 8.

Here are some clues to the numbers.

- The largest of the numbers is greater than 50 and less than 80. When you add the digits of this multiple together, they total ten.
- The smallest number is less than 34.
- The other number is three multiples of eight less than the largest number.

a) Place a tick by which of these sets of three numbers it could be.

24 40 64

16 32 56

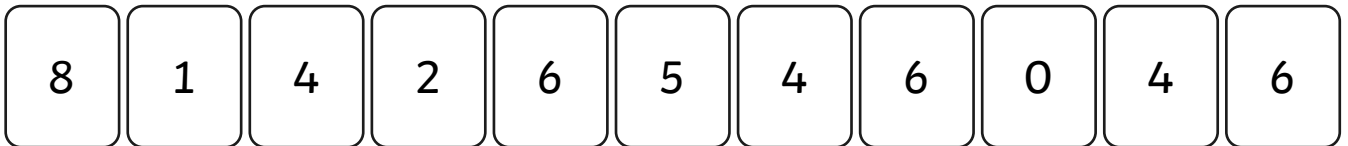
16 40 64



Sophia

b) For any of the sets of numbers it can't be, explain why you know it can't be this set.

2) Use all these digit cards once to make six different multiples of 8.



--	--	--	--	--	--



1) Count forwards or backwards in steps of 4.

a)

4	8		16		24	
---	---	--	----	--	----	--

b)

16	20			32		
----	----	--	--	----	--	--

c)

32	28		20			8
----	----	--	----	--	--	---

d)

40		32			20	
----	--	----	--	--	----	--

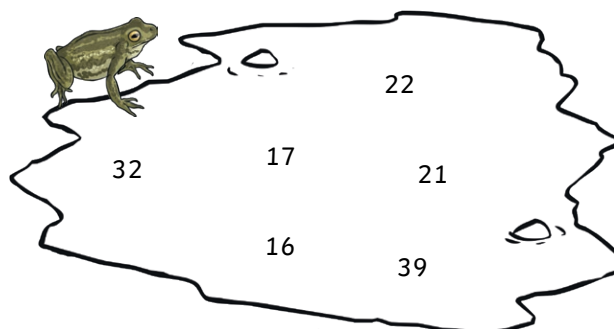
2) Tiddalick has sorted the numbers into two groups - **multiples of 4** and **not multiples of 4**.

a) Circle the wrong numbers.

Multiples of 4



Not Multiples of 4



b) Add 2 more correct numbers to each pond.

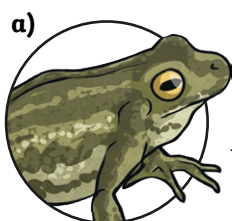


1) Khatija has baked 36 cakes. 4 cakes will fit in a box.

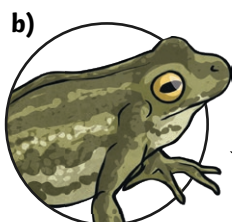
Khatija says she will need 8 boxes.

Is Khatija correct? Explain your answer using words and/or pictures.

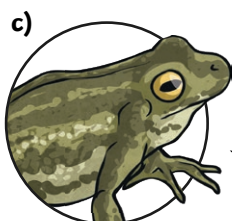
2) Do you agree or disagree? Explain each answer.



A multiple of 4 will never be an odd number.



All even numbers are multiples of 4.



There are 10 multiples of 4 which are less than 45.



1) Tiddalick is jumping along a number line. He is only allowed to land on multiples of 4.

Each number has only the start and end of the number lines shown. On the number line, write the numbers that Tiddalick would be able to land on.



2) I am thinking of some multiples of 4. Here are some clues that will help you to guess each number.

a) I am the third multiple of 4 after 20. _____

b) I am greater than 20 but less than 40.
When you add my digits together, the total is 9. _____

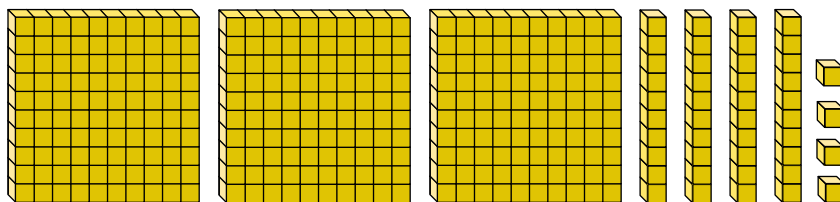
c) I am two multiples of 4 less than the next multiple of 4 after 27. _____



3) Write your own clues for 24. The clues need to have information about multiples of 4.

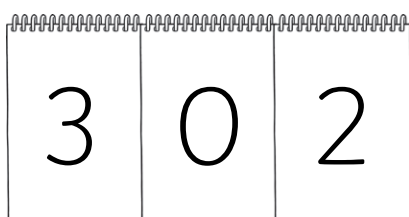


1) Jack has made this number:



- a) What is 10 more? _____ b) What is 10 less? _____
 c) What is 100 more? _____ d) What is 100 less? _____

2) Now Jack has made a new number.



How many hundreds, tens and ones would it have if he found...

- a) 10 more = _____ hundreds, _____ tens and _____ ones
 b) 10 less = _____ hundreds, _____ tens and _____ ones
 c) 100 more = _____ hundreds, _____ tens and _____ ones
 d) 100 less = _____ hundreds, _____ tens and _____ ones

3) Fill in the gaps and write the missing rules.

a) 10 more

63	73		93		
----	----	--	----	--	--

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139	149			179	
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405	505			805	
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e) _____

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684		884	984		
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My number is ten less than Chloe's number.




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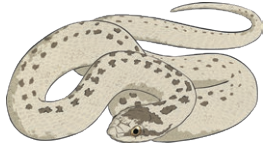
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3) Molly's pet snake will grow 100mm every week. It is 26mm long now. She says, "I know the biggest he can get is 926mm, because after that there are no more hundreds numbers".



Explain her mistake.



1)

a) I'm thinking of a number.

My number has 25 tens and 3 ones. What is 100 less than my number?

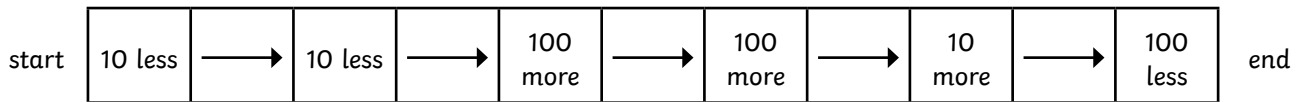
b) I'm thinking of another number.

My number is ten less than 468. What is 100 more than my number?



c) Think of a 3-digit number. Write a more or less clue for your partner to solve.

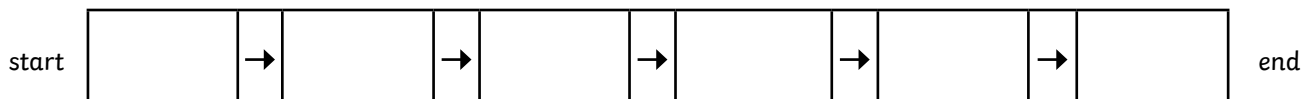
2) Here is a pathway to get from one number to another, using 10 and 100 less and more:



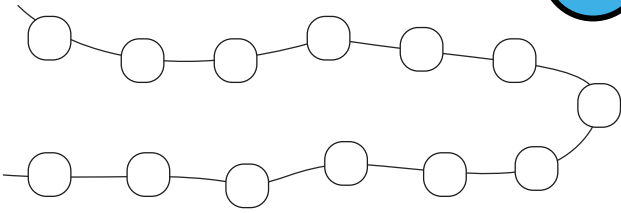
a) If the start number was 321, what would be the end number?

b) If the end number was 972, what would be the start number?

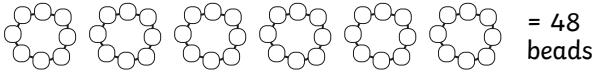
c) Write a pathway with 6 steps to get from 822 to 712.



- 1) Starting at zero, write multiples of 8 on the beads.



- 2) Here are some bracelets. Each bracelet has 8 beads.



Draw the bracelets for these amounts of beads:

- a) 56 beads b) 24 beads c) 40 beads

- 3) Leo has used beads to count forwards and backwards in multiples of 8. Tick the correct sequences. If he has made a mistake, write the correct sequence next to it.

a) 48 40 32 24 16 8 0

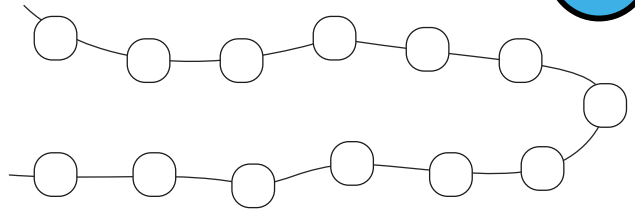
b) 24 32 36 40 48 56

c) 16 24 32 40 46 54

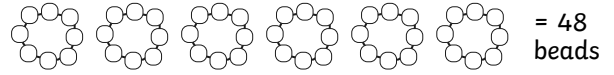
d) 56 48 40 32 26 18



- 1) Starting at zero, write multiples of 8 on the beads.



- 2) Here are some bracelets. Each bracelet has 8 beads.



Draw the bracelets for these amounts of beads:

- a) 56 beads b) 24 beads c) 40 beads

- 3) Leo has used beads to count forwards and backwards in multiples of 8. Tick the correct sequences. If he has made a mistake, write the correct sequence next to it.

a) 48 40 32 24 16 8 0

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d) 56 48 40 32 26 18



- 1) Here are some statements about multiples of 8. Decide whether each statement is true or false and give 2 examples to support your answer.



Statement	True	False	Two Examples
a) Multiples of eight do not have odd digits.			
b) Multiples of eight are also always multiples of two.			
c) Multiples of eight are never multiples of five.			
d) When you add the digits of 2-digit multiples of eight, the total will always be an even number.			
e) Multiples of eight are also always multiples of four.			

- 2) Two friends have each written down a different multiple of eight.



My multiple of eight is greater than 30 and it is less than Leo's multiple of eight.

My multiple of eight is less than 50.



Could Leo's number be 32? Explain why you think this.

- 1) Here are some statements about multiples of 8. Decide whether each statement is true or false and give 2 examples to support your answer.



Statement	True	False	Two Examples
a) Multiples of eight do not have odd digits.			
b) Multiples of eight are also always multiples of two.			
c) Multiples of eight are never multiples of five.			
d) When you add the digits of 2-digit multiples of eight, the total will always be an even number.			
e) Multiples of eight are also always multiples of four.			

- 2) Two friends have each written down a different multiple of eight.



My multiple of eight is greater than 30 and it is less than Leo's multiple of eight.

My multiple of eight is less than 50.



Could Leo's number be 32? Explain why you think this.

- 1) Sophia has written down three multiples of 8.



Here are some clues to the numbers.

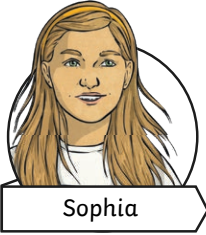
- The largest of the numbers is greater than 50 and less than 80. When you add the digits of this multiple together, they total ten.
- The smallest number is less than 34.
- The other number is three multiples of eight less than the largest number.

- a) Place a tick by which of these sets of three numbers it could be.

24 40 64

16 32 56

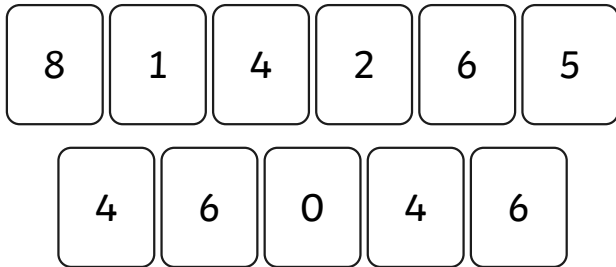
16 40 64



Sophia

- b) For any of the sets of numbers it can't be, explain why you know it can't be this set.

- 2) Use all these digit cards once to make six different multiples of 8.



- 1) Sophia has written down three multiples of 8.



Here are some clues to the numbers.

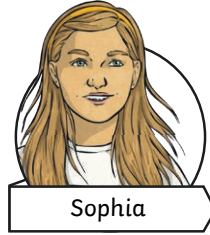
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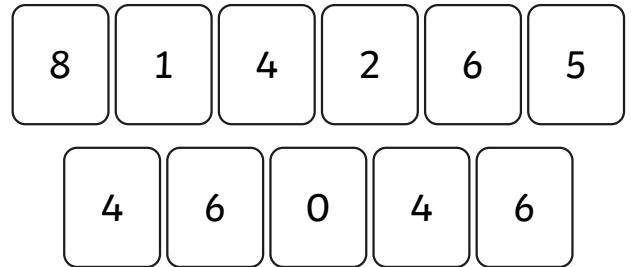
16 40 64



Sophia

- b) For any of the sets of numbers it can't be, explain why you know it can't be this set.

- 2) Use all these digit cards once to make six different multiples of 8.



1) Count forwards or backwards in steps of 4.



a)

4	8		16		24	
---	---	--	----	--	----	--

b)

16	20			32		
----	----	--	--	----	--	--

c)

32	28		20			8
----	----	--	----	--	--	---

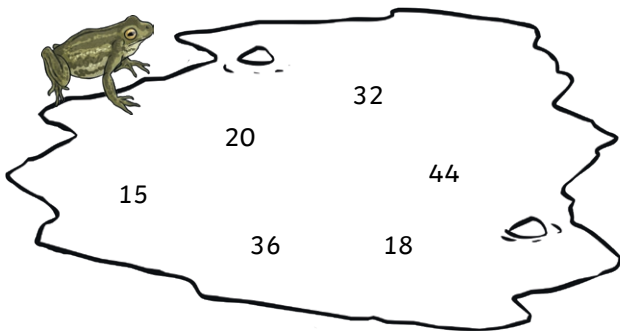
d)

40		32			20	
----	--	----	--	--	----	--

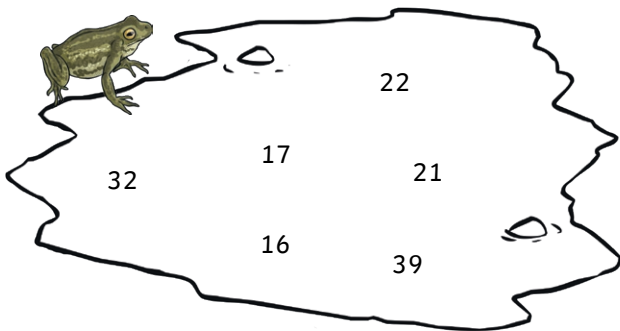
2) Tiddalick has sorted the numbers into two groups - **multiples of 4** and **not multiples of 4**.

a) Circle the wrong answers.

Multiples of 4



Not Multiples of 4



b) Add 2 more correct numbers to each pond.

1) Count forwards or backwards in steps of 4.



a)

4	8		16		24	
---	---	--	----	--	----	--

b)

16	20			32		
----	----	--	--	----	--	--

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32	28		20			8
----	----	--	----	--	--	---

d)

40		32			20	
----	--	----	--	--	----	--

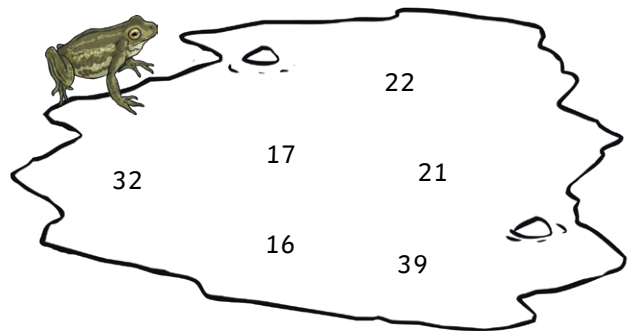
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a) Circle the wrong answers.

Multiples of 4



Not Multiples of 4



b) Add 2 more correct numbers to each pond.

- 1) Khatija has baked 36 cakes. 4 cakes will fit in a box.



Khatija says she will need 8 boxes.

Is Khatija correct? Explain your answer using words and/or pictures.

- 2) Do you agree or disagree? Explain each answer.

a)



A multiple of 4 will never be an odd number.

b)



All even numbers are multiples of 4.

c)



There are 10 multiples of 4 which are less than 45.

- 1) Khatija has baked 36 cakes. 4 cakes will fit in a box.



Khatija says she will need 8 boxes.

Is Khatija correct? Explain your answer using words and/or pictures.

- 2) Do you agree or disagree? Explain each answer.

a)



A multiple of 4 will never be an odd number.

b)



All even numbers are multiples of 4.

c)



There are 10 multiples of 4 which are less than 45.

- 1) Tiddalick is jumping along a number line. He is only allowed to land on multiples of 4.



Each number has only the start and end of the number lines shown. On the number line, write the numbers that Tiddalick would be able to land on.

a) 7 17
|-----|

b) 10 30
|-----|

c) 20 60
|-----|

- 2) I am thinking of some multiples of 4. Here are some clues that will help you to guess each number.

a) I am the third multiple of 4 after 20.



b) I am greater than 20 but less than 40. When you add my digits together, the total is 9.

c) I am two multiples of 4 less than the next multiple of 4 after 27.

- 3) Write your own clues for 24. The clues need to have information about multiples of 4.

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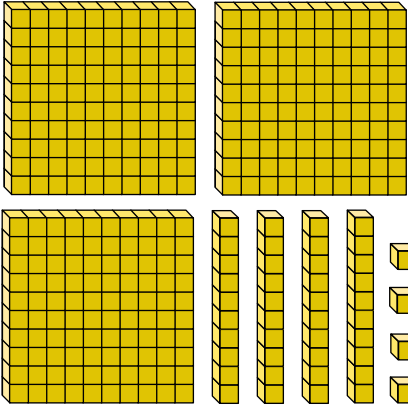


b) I am greater than 20 but less than 40. When you add my digits together, the total is 9.

c) I am two multiples of 4 less than the next multiple of 4 after 27.

- 3) Write your own clues for 24. The clues need to have information about multiples of 4.

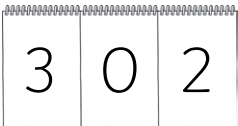
1) Jack has made this number:



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- a) What is 10 more?
- b) What is 10 less?
- c) What is 100 more?
- d) What is 100 less?

2) Now Jack has made a new number.



How many hundreds, tens and ones would it have if he found...

- a) 10 more = __ hundreds, __ tens and __ ones
- b) 10 less = __ hundreds, __ tens and __ ones
- c) 100 more = __ hundreds, __ tens and __ ones
- d) 100 less = __ hundreds, __ tens and __ ones

3) Fill in the gaps and write the missing rules.

a) 10 more

62	73		93		
----	----	--	----	--	--

b) 10 less

121		101		81	
-----	--	-----	--	----	--

c) _____

139	149			179	
-----	-----	--	--	-----	--

d) _____

405	505			805	
-----	-----	--	--	-----	--

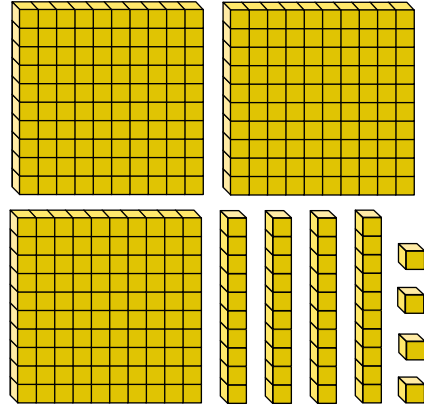
e) _____

722		522	422		
-----	--	-----	-----	--	--

f) _____

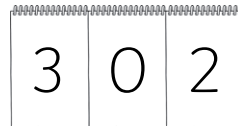
684		884	984		
-----	--	-----	-----	--	--

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-----	-----	--	--	-----	--

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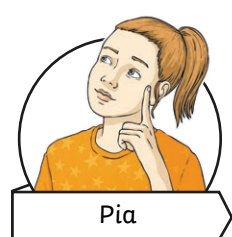
f) _____

684		884	984		
-----	--	-----	-----	--	--

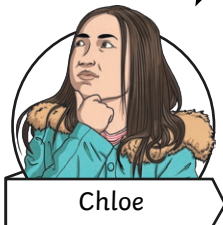


My number is ten less than Chloe's number.

My number is 602.



My number is 1 hundred more than Pia's number.



What are Sam and Chloe's numbers?

2) The snake can only move 100 more each time. It can move up, down, sideways and diagonally. Circle the boxes to show the snake the way to the end.



Start 314	324	334	335	914	954
315	414	424	535	904	994
554	514	614	564	814	914
654	524	515	714	715	1014
704	824	1234	1214	1114	1024
855	825	1324	1314	1414	End 1514

3) Molly's pet snake will grow 100mm every week. It is 26mm long now. She says, "I know the biggest he can get is 926mm, because after that there are no more hundreds numbers".

Explain her mistake.

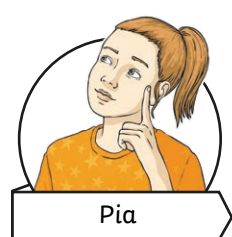


1)

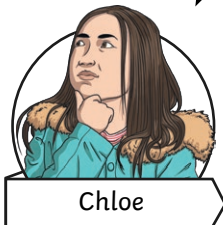


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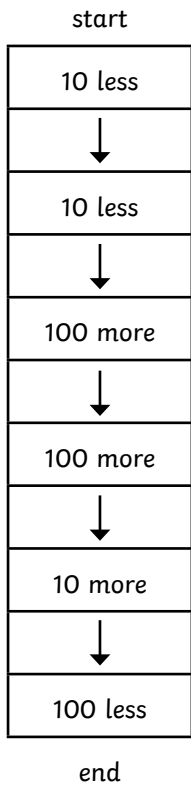
Explain her mistake.





- a) I'm thinking of a number.
My number has 25 tens and 3 ones.
What is 100 less than my number?
- b) I'm thinking of another number.
My number is ten less than 468. What is 100 more than my number?
- c) Think of a 3-digit number. Write a more or less clue for your partner to solve.

2) Here is a pathway to get from one number to another, using 10 and 100 less and more:

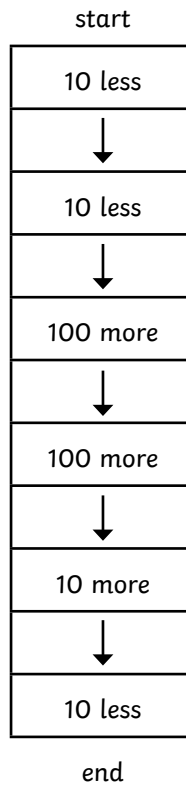


- a) If the start number was 321, what would be the end number?
- b) If the end number was 972, what would be the start number?
- c) Write a pathway with 6 steps to get from 822 to 712.



- 1)
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