

Diving into Mastery – Diving

Adult Guidance with Question Prompts

Children could use a number line or a hundred square to help with this activity. Practical equipment such as base ten or number shapes may also be useful.

What is the number in the middle? How has it been represented?

How can we find out what is one more/one less than that number?

What has happened to the tens?

What has happened to the ones?

One More, One Less

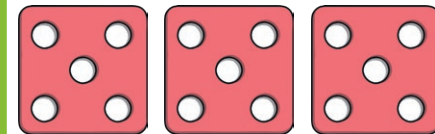


The dinosaurs have found some numbers. Can you help them find one less and one more than each number?

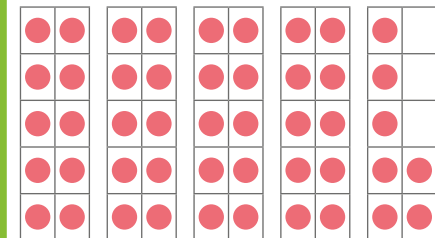


One Less

One More



78



90

Diving into Mastery – Deeper

Adult Guidance with Question Prompts

Children will need the set of digit cards that has been provided at the end of this pack.

Look at your digit cards. Can you read these numbers out loud?

Turn all digit cards upside down so the number can't be seen.

Choose a card. Where do you think that number is on the hundred square? How do you know? What is it one more than? What is it one less than?


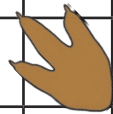
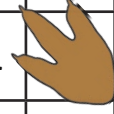
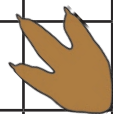
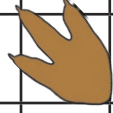
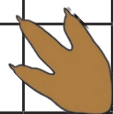
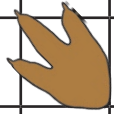
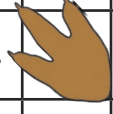
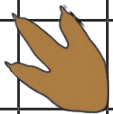

Choose another card. Can you explain how to find out where that number is hiding?

One More, One Less



The dinosaurs have walked all over the hundred square. Choose a card from your pile and say where it should go on the hundred square.



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

Diving into Mastery – Deepest

Adult Guidance with Question Prompts

Encourage children to count how many leaves are in the first row that Countosaurus has made.

Do you think all the rows are the same? Can you explain why you think that?

How many leaves are in the first four rows altogether?

How many are in the bottom row? Can you tell me without counting them?

How many has he picked in total?

If he picks one more, how many will he have?

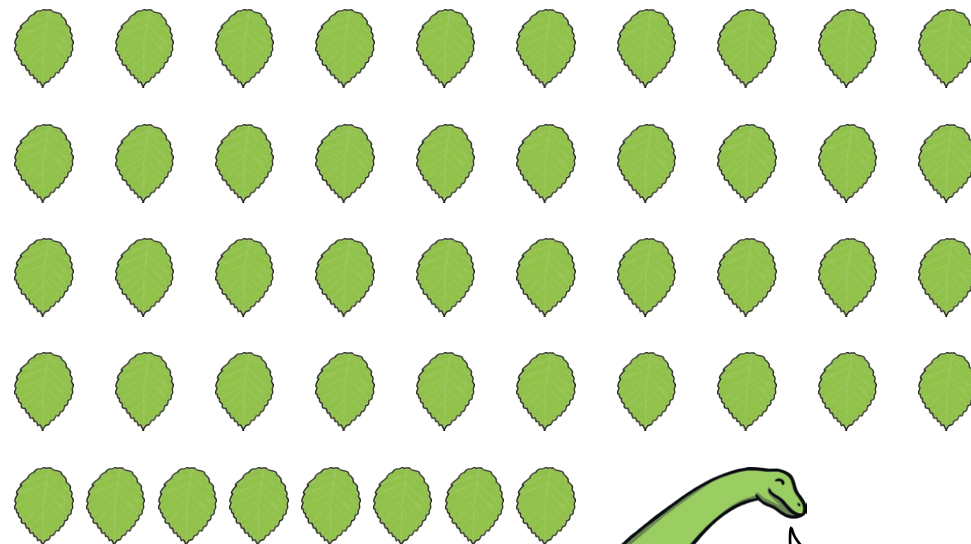
Is Countosaurus right when he says he will have 50 leaves? Why not? How many more would he need to pick to have 50 leaves in total?

How many would he have if he had one less?

One More, One Less



Countosaurus wants to count the leaves he will eat for dinner. He arranges them like this:



Is Countosaurus correct? Explain why.

If I pick one more, I will have 50 leaves.

Dino says, 'I am thinking of a number of leaves, if I have 1 less than my number, I have a multiple of 5.' How many leaves could Dino have? List as many as you can and explain your answers.

