∠ 3 levels

Probing Questions

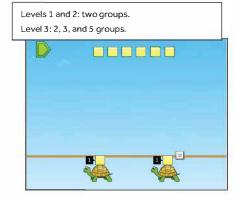
- How do you decide how high to move the platform?
- How does your strategy change when there are more than two animals?

What Strategies Are Being Used?

Ask students to share how they are solving these puzzles. Look for dealing them out, skip counting, repeated subtraction, using multiplication, or ??

Classroom Connection

Use square tiles to simulate this game. Share strategies and ask questions that will help students generalize that all numbers divisible by two are even.

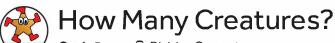


Can you see this solution as 3x5?

Division Concepts - 2



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Grade 3

∠ 3 levels

Probing Questions

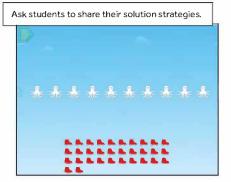
- How do you decide how many creatures are needed?
- How would you turn this into a word problem?

What Concepts Are Being Developed?

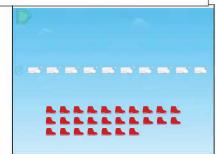
This game uses a quotative or measurement model of division where the number in each group is given and number of groups must be found.

Research is clear

Children's understanding of quotative division lags behind their understanding of partitive situations.



Note how many boots are in each row.





∠ 3 levels

Probing Questions

• How are you counting/figuring this out?

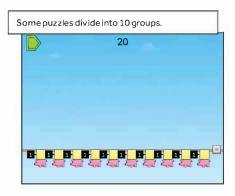
What's Important Here?

Since the blocks have been replaced with a number, students may need to adjust their strategies.

What do the Standards Say?

Understand division as an unknown-factor problem.

Use the visuals to discuss the inverse relationship of multiplication and division.



Division Concepts - 4



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طا 4 levels

Probing Questions

· After selecting the number of dots, how to you decide where to move the cursor?

What Concepts Are Being Developed?

Students must distinguish division and subtraction using a visual model.

Classroom Connection

Give students a specific number of linking cubes. Represent various +, -, x, and ÷ expressions. Discuss how the numbers are represented in each.

