

NUMBER ROD REASONING

ADDITION & SUBTRACTION

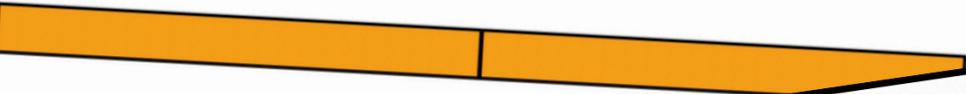
SHELLEY GRAY

Think and Reason 5
Make a train with 2 light green rods.



Complete this sentence:
2 light green rods are the same length as _____ rods.
Write an equation to match.

Think and Reason 15
Build two different single-colored trains that are the same length as two orange rods.



Write an equation to show your thinking.

Think and Reason 14
Build a train that equals 10 using exactly 4 rods. How many ways are there?



Write an equation for each one.

Number Rod Reasoning: Addition & Subtraction © Shelley Gray

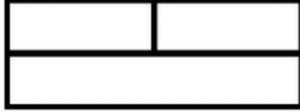
20
TASKS

Think and Reason 2

Use the rods to show a representation of $10-6$.



Now show it in a part-part-whole model.

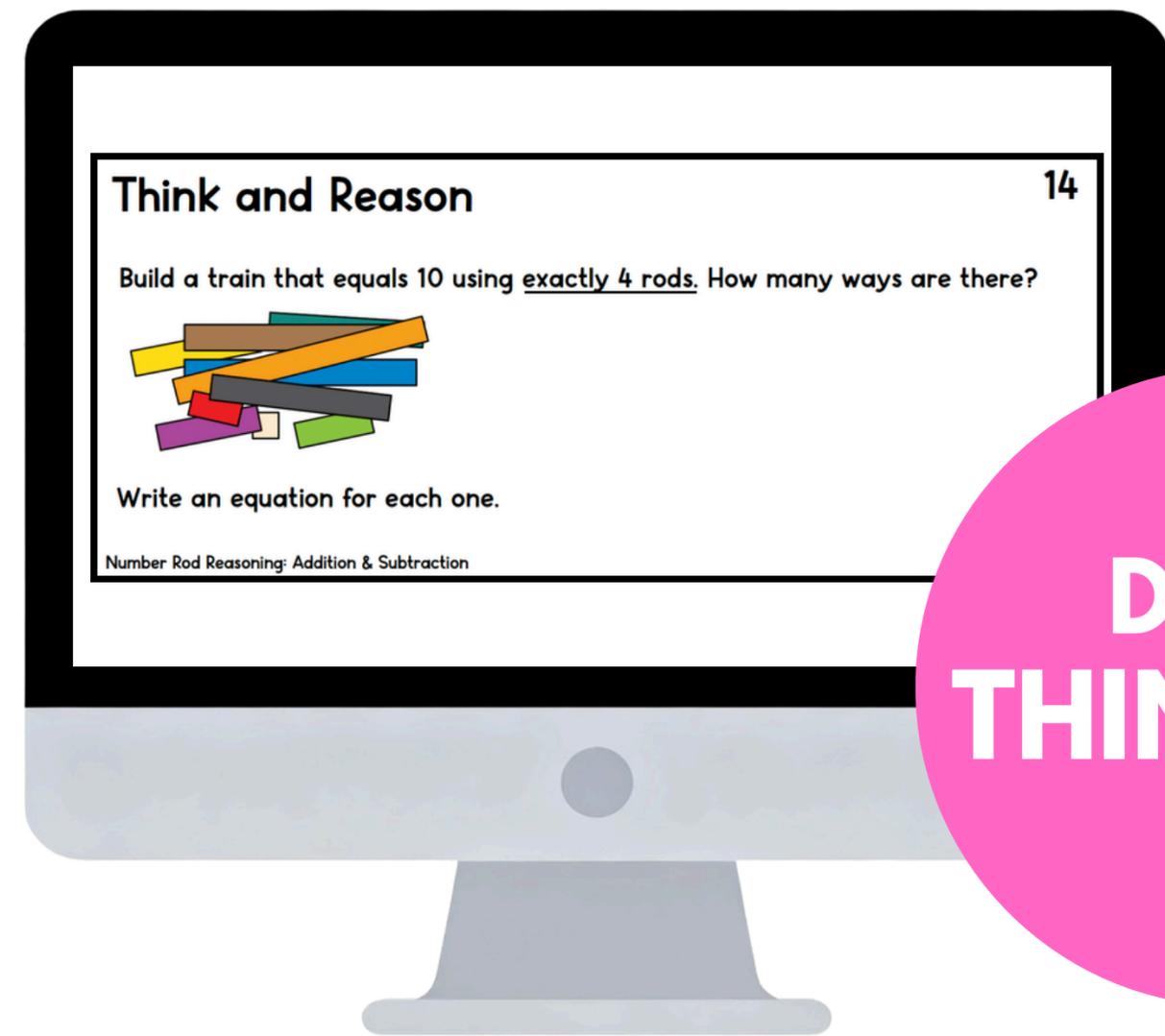


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DIGITAL & PRINTABLE

Ready to go beyond simple answer-getting?

In these Number Rod Reasoning Tasks for addition and subtraction, students will represent and justify their thinking, making them ideal for building conceptual understanding and mathematical flexibility.



**DEEP
THINKING**

Use them in small groups,
whole class, or
intervention settings to
encourage productive
struggle and
mathematical discussions.

**LOW FLOOR
HIGH CEILING**

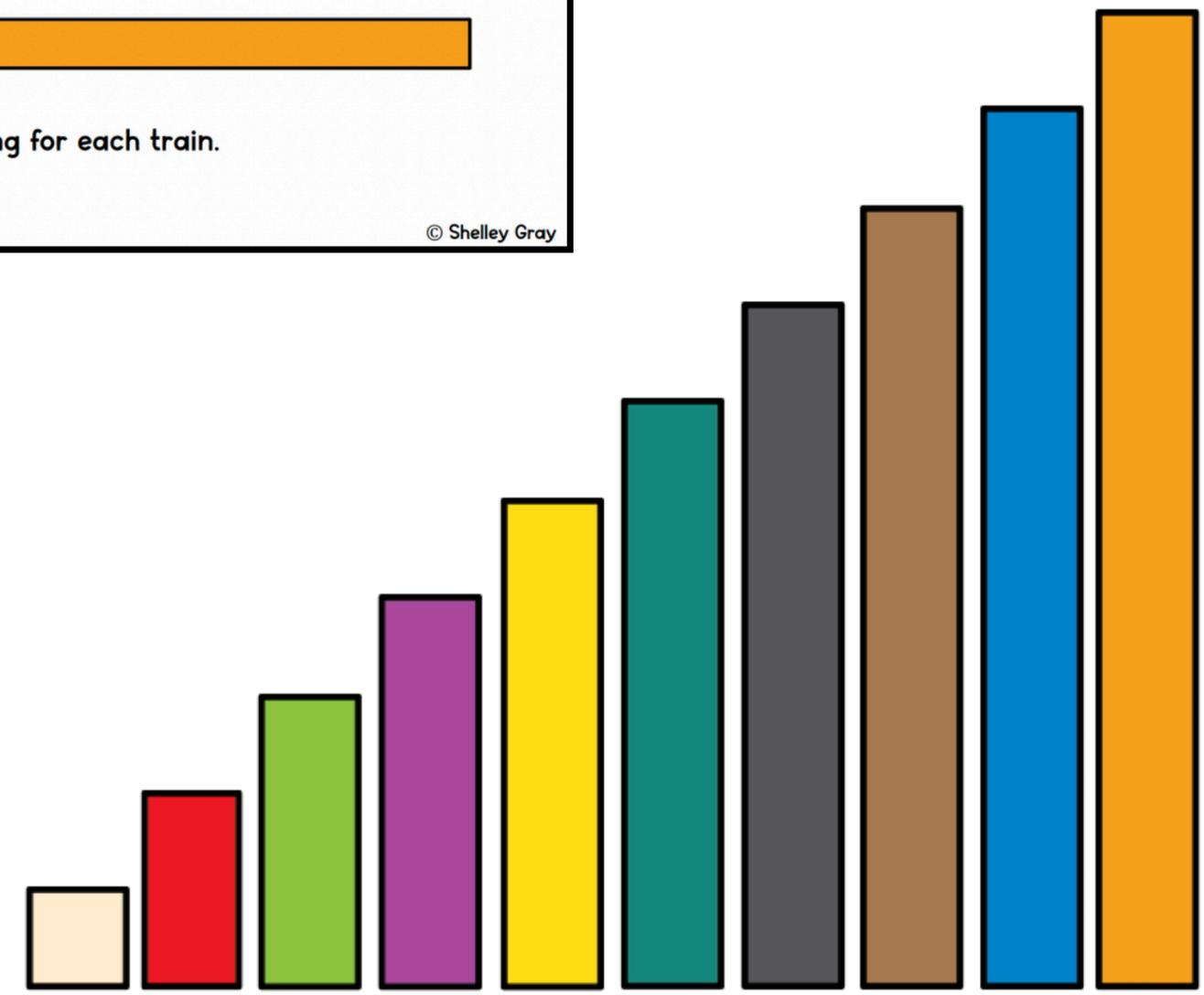
Think and Reason 15

Build two different single-colored trains that are the same length as two orange rods.



Write an equation to show your thinking for each train.

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This resource includes twenty tasks, designed to promote **deep thinking** and **reasoning** with number rod manipulatives.

The hands on nature of these activities will help students make important connections between **concrete** and **abstract**.

Think and Reason 5

Make a train with 2 light green rods.



Complete this sentence: _____ rods.

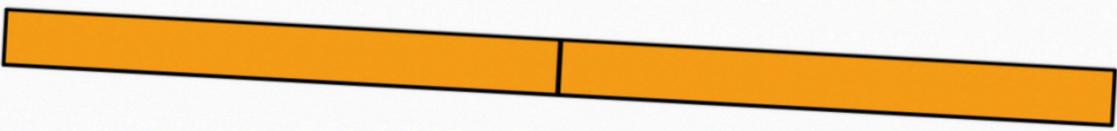
2 light green rods are _____ rods.

Write an equation to _____

Number Rod Reasoning: Addition & Subtraction

Think and Reason 15

Build two different single-colored trains that are the same length as two orange rods.

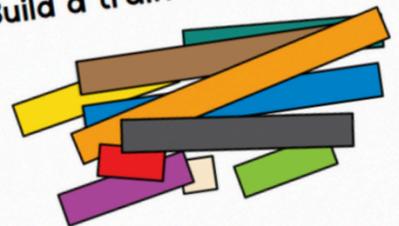


Write an equation to show your thinking for _____

Number Rod Reasoning: Addition & Subtraction

Think and Reason 14

Build a train that equals 10 using exactly 4 rods. How many ways are there?

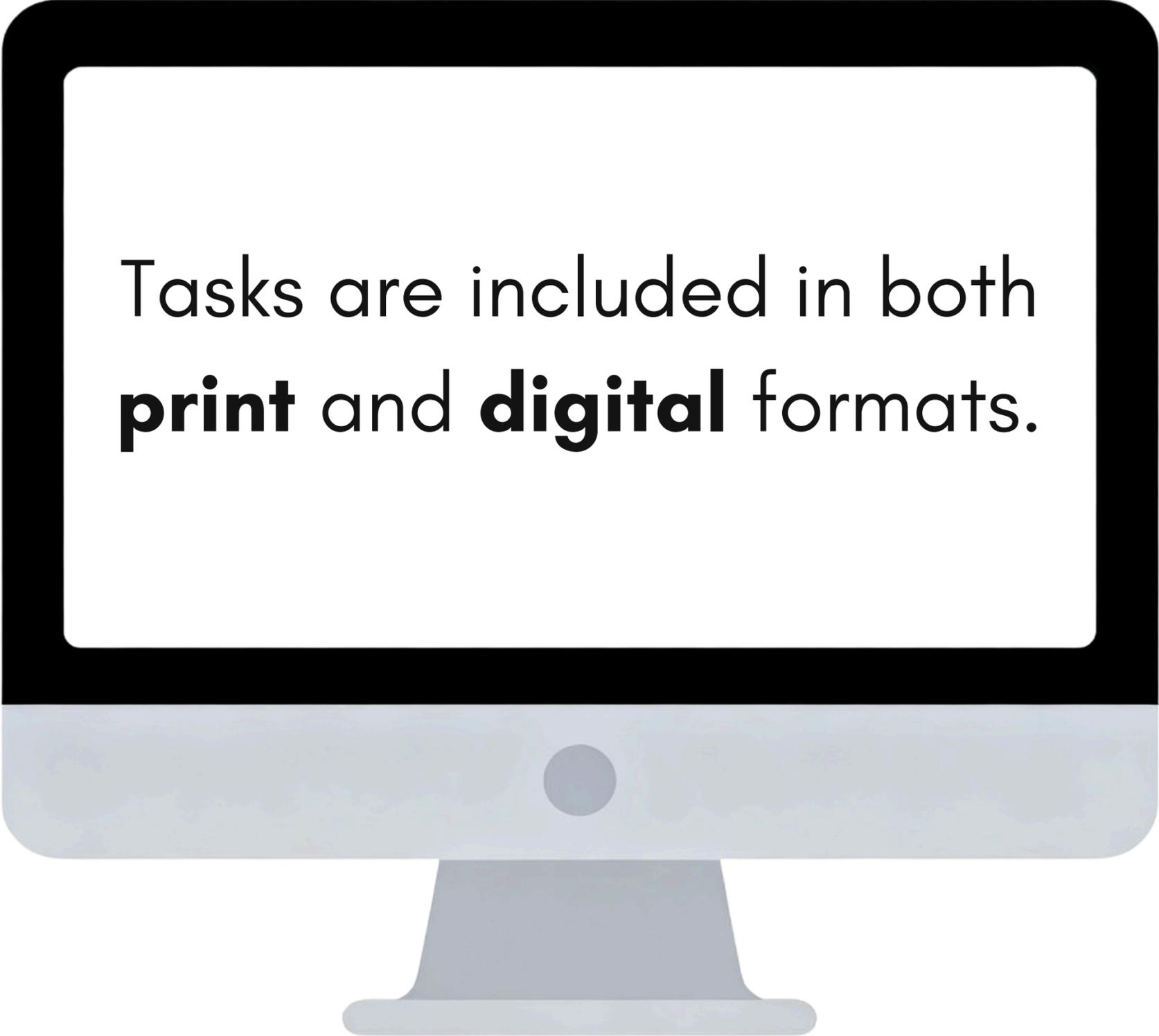


Write an equation for each one.

Number Rod Reasoning: Addition & Subtraction



**MAKE
REASONING A
DAILY
ROUTINE**



Tasks are included in both
print and **digital** formats.

If it's your first time using number rods, or if you need additional support, photo examples of each task are provided.

**BUILDS
FLEXIBLE
THINKING!**

