Name	Date
Part 1	
101	e bridges in Part 1 are built with yellow rods for spans an supports, like the one shown here. This is a 2-span bridg you just built. Note that the yellow rods are 5 cm long.
	yellow
1. Now, buil	d a 3-span bridge.
	any yellow rods did you use?
b. How lo	ng is your bridge?
c. How m	any red rods did you use?
d. How m	any rods did you use altogether?
. Try to ans If you want	wer these questions without building a 5-span bridge., build a 5-span bridge to check your answers.
	iny yellow rods would you need for a 5-span bridge?
b. How lor	ng would your bridge be?
c. How ma	ny red rods would you need?
م الم	ny rods would you need altogether?

3. Without building a 12-span bridge, answer the following questions.
a. How many yellow rods would you need for a 12-span bridge?
b. How long would your bridge be?
c. How many red rods would you need?
d. How many rods would you need altogether?
4. How many yellow rods and red rods would you need to build a 28-span bridge? yellow rods and red rods. Explain your answer.
5. Write a rule for figuring out the total number of rods you would need to build a bridge if you knew how many spans the bridge had.
6. How many yellow rods and red rods would you need to build a bridge that is 185 cm long? yellow rods and red rods. Explain your answer.
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C

Name		Date
Part 2		
The bridges for this	s part are built like this 2	2-span bridge:
light green		
The black rods are 7 o Notice that the support	cm long, and the light g ts are <u>shared</u> between sp	green rods are 3 cm long. Dans, except at the ends
1. Build a 3-span bridg	ge of this same kind, with	h black and light green
a. How many blackb. How long is you	crods did you use?	-
	green rods did you use?	·
	did you use altogether?	

you want to, build a 5-span bridge to check your answers.

c. How many light green rods would you need? _____

d. How many rods would you need altogether? _____

a. How many black rods would you need for a

b. How long would your bridge be? _____

5-span bridge?____

3. Without building a 13-span bridge, answer the following questions.
a. How many black rods would you need for a 13-span bridge?
b. How long would your bridge be?
c. How many light green rods would you need?
d. How many rods would you need altogether?
4. How many black rods and light green rods would you need to build a 56-span bridge? black rods and light green rods. Explain your answer.
5. Write a rule for figuring out how many rods you would need to build a bridge if you knew how many spans the bridge had.
6. How many black rods and light green rods would you need to build a bridge that is at least 429 cm long? black rods and light green rods. Explain your answer.
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"BRIDGES" ASSESSMENT

Performance Task Exercise Discussion Questions

- 1. What are the major objectives that the teacher would be trying to measure with this performance task?
- 2. Given that the task was designed for Grade 4, do you feel that it is appropriate for children of this age? Why or why not?
- 3. How do you feel about the use of manipulatives being embedded into an assessment task?
- 4. What do you see as the strengths of using this type of a performance task? What data were you able to gather as a teacher that would not have been available had you used a traditional testing format, on which students simply wrote "final answers" and had them scored "right" or "wrong?"
- 5. What do you see as the limitations of using this type of a performance task with your students?