

Connect Concepts and Skills

Lesson 🕰

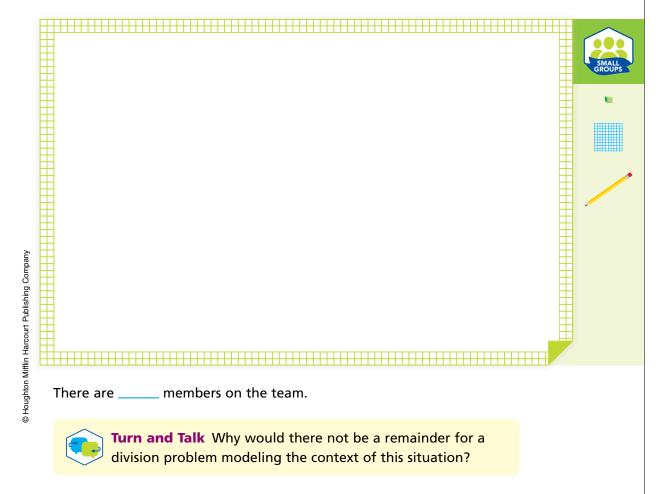
Name

Use Partial Quotients

I Can use partial quotients to divide a multi-digit number by a 2-digit divisor.

Spark Your Learning

Team Mud Footers is participating in an obstacle course marathon. For each obstacle the team completes, \$99 is added to their prize bank. The team completes 12 obstacles. If each member takes home \$66, how many members are on the team?

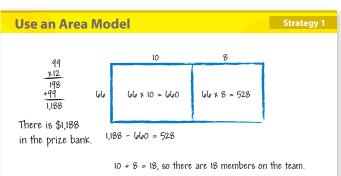


Module 2 • Lesson 4



Spark Your Learning • Student Samples

During the *Spark Your Learning*, listen and watch for strategies students use. See samples of student work on this page.



If students ... correctly multiply and divide using an area model, then these students are demonstrating exemplary understanding of the concepts learned in previous lessons.

Have these students ... share and explain how to use an area model to solve the problem. Ask:

• How does your area model show the solution to the problem?

Use Repe	ated Subtraction to Divide Strategy 2
99	
<u>× 12</u>	There is \$1,188 in the prize bank.
198	I subtract \$66 from \$1,188 repeatedly until

- ± 49 | get zero. | subtracted \$66 eighteen times,
- 1,188 so there must be 18 members on the team.

COMMON ERROR: Di	vide Incorrectly	
99	66 <u>)1,188</u>	
$\frac{\times 12}{120}$	-66	
198 + 99	528	
1,188	<u>- 330</u> 198	
	- 198	
153 team members	0	

7D |

If students ... use repeated subtraction to determine the number of team members, then these students show an understanding of one way to solve the problem but do not demonstrate whether they recognize that they can divide to solve the problem.

Activate prior knowledge... by having students consider the relationship between repeated subtraction and divison. Ask:

- What operation is related to subtracting repeatedly?
- What division expression can you write to model the number of team members?

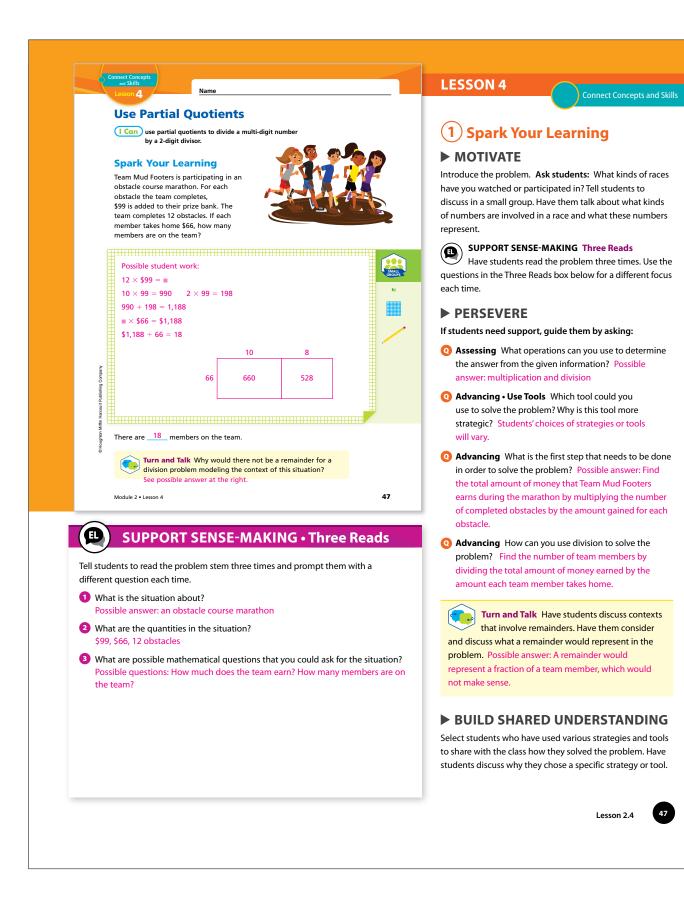
If students ... are unable to correctly divide to find the number of team members, then these students may need to consider other methods they have used to divide by 1-digit numbers.

Then intervene ... by reminding students how they have divided in previous lessons. **Ask:**

- What methods do you know to divide a 4-digit number by a 1-digit number?
- How can you apply these methods if the divisor is a 2-digit number?

Module 2





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