Home Connections

GRADE 3 – UNIT 1 – MODULE 3

BRIDGES™
IN MATHEMATICS
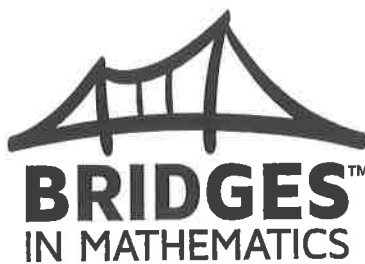
NAME _____ | **DATE** _____

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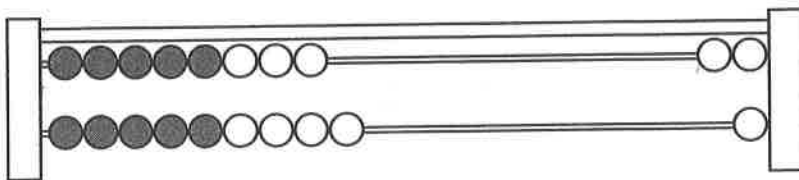**1** The sum of three numbers is 12. What could those three numbers be? Think of three different solutions.

12 = ____ + ____ + ____   12 = ____ + ____ + ____   12 = ____ + ____ + ____

2 The difference between two numbers is 12. What could those numbers be?

12 = ____ − ____   12 = ____ − ____   12 = ____ − ____

3 Look at this picture and think about the many different equations you could write to represent it.

a Write an addition equation to represent the picture above.

b Write a subtraction equation to represent the picture above.

4 Add each pair of numbers.

8	10	78	10	168	28	10
+ 10	+ 38	+ 10	+ 118	+ 10	+ 10	+ 58

5 What pattern do you see in the combinations above?

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Use numbers, pictures, or words to show your work when you solve these problems. Use additional paper if you need more room.

6 Jack is 36 inches tall. Mary is 6 inches taller than Jack. Cameron is 4 inches taller than Mary.

  a How many inches tall is Cameron?

  b How many inches tall is Mary?

7 CHALLENGE You and your friend are talking about your solutions to problem 2. Your friend said that there are exactly 12 different pairs of numbers with a difference of 12 and that he had found them all. How would you respond to him?

8 CHALLENGE You and your friend were thinking about pairs of whole numbers that have a *sum* of 12. How many pairs of whole numbers can you find that have a sum of 12? (Note: A whole number is equal to or greater than 0 and does not include a fraction. 2 is a whole number. 2 ½ is not a whole number.)

9 CHALLENGE How many pairs of whole numbers have a sum of 40?

10 CHALLENGE How many pairs of whole numbers have a sum of 110?

11 CHALLENGE How many pairs of whole numbers have a sum of 99?

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1 Count on by 10s to fill in the blanks below.

a 217 _____ _____ 247 _____ _____ _____ _____ _____

b _____ _____ _____ _____ 42 52 _____ _____ _____

c _____ _____ _____ 110 _____ _____ _____ _____ _____

d _____ _____ 356 _____ 376 _____ _____ _____ _____

Solve each problem below. Show your work for each.

2 The book measures 40 centimeters and the paper measures 120 centimeters. How long are they together if you line them up end-to-end?

3 The pencil measures 120 centimeters and the pen measures 30 centimeters. How long are they together if you line them up end-to-end?

4 The photo measures 30 centimeters and the frame measures 250 centimeters. If you lined them up end-to-end, how long would they be together?

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5 Albert rode his bike for 14 minutes. Ally rode her bike for 8 minutes.

a How much longer did Albert ride?

b Which equation could you use to represent this problem:

○ $14 + 8 = b$ ○ $14 + b = 8$ ○ $8 - b = 14$ ○ $14 - b = 8$

Show your thinking when you solve these problems:

6 Bobby is supposed to be at school at 8:30 but on Monday he was 17 minutes late. What time did Bobby get to school?

7 **CHALLENGE** Steve was also late to school on Monday, but he got there 8 minutes before Bobby. What time did Steve get to school?

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1 Count on by 10s to fill in the blanks below.

a   55   56   ____   ____   ____   ____   ____   176

b   ____   ____   ____   ____   148   ____   ____   ____

c   ____   ____   ____   232   ____   ____   ____   ____

d   ____   ____   756   ____   776   ____   ____   ____

2 Solve the problems below. Show your work for each.

a The book measures 45 units and the paper measures 23 units. How long are they together if you line them up?

b The pencil measures 20 units and the pen measures 32 units. How long are they together if you line them up?

c The photo measures 95 units and the frame measures 25 units. If you lined them up, how long would they be together?

d You line up a paper, pencil, and pen and they measure 43 units end to end. The paper measures 23 units, the pencil measures 10 units. What does the pen measure?

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3 Alex's goal this month is to ride 20 miles on his bike. One week he rode 5 miles, the next week he rode 6 miles, and this past week he rode 8 miles.

a How many miles has Alex ridden so far?

b How many miles does Alex still need to ride to meet his goal of riding 20 miles this month?

4 Alex's sister Hazel also likes to bicycle a lot. In three weeks, she rode a total of 20 miles. How many miles did she ride each week? Find at least four solutions to the problem.

Week 1	Week 2	Week 3	Total

_____ + _____ + _____ = 20 miles

_____ + _____ + _____ = 20 miles

_____ + _____ + _____ = 20 miles

_____ + _____ + _____ = 20 miles

5 Steve and Henry rode their bikes completely around Brightwood Park. The distances are marked on the map below. How many kilometers (km) did they ride? Show your work.

Brightwood Park

13 km

4 km

8 km

12 km
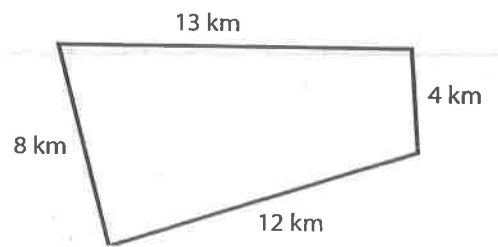
6 Logan's dog, Chief, likes to patrol along the fence of Logan's backyard to make sure everything is as it should be. How many feet does Chief walk every time he patrols the yard? Show your work.

60 ft

40 ft **Logan's yard** 40 ft

60 ft

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