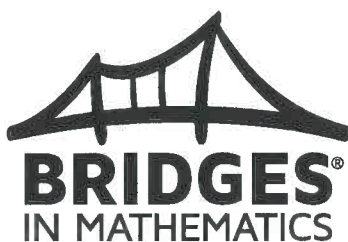


# Home Connections

GRADE 4 – UNIT 4 – MODULE 2



NAME \_\_\_\_\_

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**Think Before You Add** page 1 of 2

- 1** Study each problem before you begin to solve it. Think about which strategy would be most efficient (easiest and fastest). Choose your strategy and solve the problem. Use the space below the problems if you need it to do your figuring.

$$\begin{array}{r} 99 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} 878 \\ +121 \\ \hline \end{array}$$

$$\begin{array}{r} 213 \\ +762 \\ \hline \end{array}$$

$$\begin{array}{r} 232 \\ +75 \\ \hline \end{array}$$

- 2** Use the standard algorithm for addition to solve the problems below.

$$\begin{array}{r} 189 \\ + 215 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ +84 \\ \hline \end{array}$$

$$\begin{array}{r} 378 \\ +497 \\ \hline \end{array}$$

$$\begin{array}{r} 764 \\ +135 \\ \hline \end{array}$$

- 3** Look at the problems in item 2. Find a problem that might have been solved faster with another strategy.
- a** Which problem did you choose?
- b** Which strategy could be faster? Why?

*(continued on next page)*

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**Think Before You Add** page 2 of 2**Mixed Review****4** Use the symbols  $>$ ,  $=$ , or  $<$  to compare each pair of fractions.

**ex**  $\frac{1}{3} > \frac{1}{4}$

**a**  $\frac{3}{6} \quad \frac{2}{3}$

**b**  $\frac{1}{3} \quad \frac{1}{4}$

**c**  $\frac{3}{4} \quad \frac{5}{6}$

**d**  $\frac{2}{3} \quad \frac{3}{4}$

**e**  $\frac{1}{2} \quad \frac{2}{4}$

**f**  $\frac{1}{3} \quad \frac{2}{4}$

**g**  $\frac{2}{6} \quad \frac{1}{3}$

**5** Write the decimal name for each fraction.

**a**  $5\frac{9}{10} =$

**b**  $6\frac{5}{100} =$

**c**  $2\frac{6}{10} =$

**d**  $8\frac{1}{10} =$

**e**  $1\frac{20}{100} =$

**f**  $3\frac{4}{10} =$

**g**  $9\frac{50}{100} =$

**6** **CHALLENGE** Last year, Monica's snake was 9.62 inches long. Now her snake is 12.37 inches long. Show your work with numbers, labeled sketches, or words for each question below.**a** How much did Monica's snake grow in the last year?**b** How much more does her snake need to grow to be exactly 13 inches?

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**Number Cards** page 1 of 2

Hayley pulled 6 cards from a regular deck of cards. She arranged the cards into these 3-digit numbers: 348 and 956.

- 1 What is the sum of Hayley's numbers? Use the strategy of your choice and show your work below.
- 2 What is the difference between Hayley's numbers? Use the strategy of your choice and show your work below.
- 3 What is the largest 6-digit number Hayley can make with the numbers she chose?
- 4 What is the smallest 6-digit number Hayley can make with the numbers she chose?
- 5 Hayley chose 6 more cards. This time she made these numbers: 278 and 421. Hayley says she can add 299 and 400 and get the same sum as 278 and 421. Do you agree or disagree? Why?
- 6 Hayley says she can find the difference between 278 and 421 by finding the difference between 300 and 443. Do you agree or disagree? Why?

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**Number Cards** page 2 of 2**Review**

- 7** Add these pairs of fractions. Express the answer for each as a fraction with denominator 100.

$$\frac{5}{10} + \frac{37}{100} =$$

$$\frac{6}{10} + \frac{6}{100} =$$

$$\frac{13}{10} + \frac{87}{100} =$$

$$\frac{4}{10} + \frac{12}{100} =$$

- 8** Place the decimals in their correct places on the number line.

0.4

0.1

0.8

0.25

0.55

0.95

**Story Problems**

- 9** There are 137 third graders, 139 fourth graders, and 153 fifth graders at Wood Upper Primary School. How many students are there in all? Show your work using numbers, sketches, or words.

- 10 CHALLENGE** Sarah, Rex, and Peter are all friends. One of them lives in a red house, one lives in a blue house, and the other lives in a green house. The person who lives in a green house has more than 3 letters in his name. The person who lives in a red house is not Rex. Which person lives in each house?

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## Thinking About Subtraction page 1 of 2

- 1** Look at each subtraction problem below. Think about which strategy makes the most sense for each problem. Solve each problem.

<p><b>a</b></p> $\begin{array}{r} 4875 \\ - 4859 \\ \hline \end{array}$	<p>What strategy did you use? Why did you use this strategy?</p>
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<p><b>b</b></p> $\begin{array}{r} 1,685 \\ - 1,685 \\ \hline \end{array}$	<p>What strategy did you use? Why did you use this strategy?</p>
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<p><b>c</b></p> $\begin{array}{r} 699 \\ - 424 \\ \hline \end{array}$	<p>What strategy did you use? Why did you use this strategy?</p>
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- 2** Fill in the blanks in the equations below.

$498 - 323 = 500 - \underline{\quad}$

$68 - \underline{\quad} = 70 - 55$

$1003 - 498 = \underline{\quad} - 495$

*(continued on next page)*

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**Thinking About Subtraction** page 2 of 2**Review**

- 3** Jenny got a box of 15 stickers for her birthday. Use this information as you solve each problem below. Use numbers, labeled sketches, or words to show your thinking.
- a** Jenny used 5 stickers on a thank-you card. What fraction of the box did she use?
  - b** Jenny gave her brother 4 stickers. What fraction does she have left out of her box of 15?
- 4** After she gave some stickers to her brother, Jenny's dog ate 3 of her stickers.
- a** Now what fraction does Jenny have left of her original box of 15 stickers?
  - b** What fraction of the stickers went to Jenny's brother and her dog?
- 5** The third grade gymnastics team has 279 points. In order to place in the top three teams, they'll need a score of 425 or more. How many more points do they need to earn in order to rank in the top three?
- 6** **CHALLENGE** Brendan needs to mail a 12-page letter to his friend in Texas. It costs \$1.38 to mail all 12 sheets together. A 6-page letter costs 68¢ to mail. A 4-page letter costs 45¢ to mail. Envelopes cost 3¢ each. What is the least expensive way to mail his 12 pages?