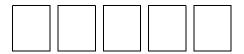
	Name	Date	
Master 2.9	Additional Activity 1	: Go for the Greatest	

Work in a group.

You will need a calculator.

You will need a decahedron numbered 0 to 9.

The goal is to make the greatest number in this number frame.



- > Players take turns to roll the decahedron and record the number in any position in their number frame.
 - Once a player has recorded a number, he or she cannot move it.
- Play continues until each player has filled her or his number frame.
- The player with the greatest number scores 2 points. The player with the least number scores 1 point. The first player to score 8 points wins.

Take It Further:

At the end of each round, arrange all the numbers in order from greatest to least.

Name Date	
-----------	--

Master 2.10

Additional Activity 2: What's the Difference?

Work with a partner.

You will need a set of digit cards numbered 0 to 9.

- Shuffle the digit cards and place them face down on the table.
- Player 1 selects 4 digit cards and makes the least number possible.
- > Player 2 turns over 3 cards and makes the greatest number possible. Player 1 finds the difference between the 4-digit number and the 3-digit number.
- Players switch roles.
- > The player with the least difference scores 1 point. If there is a tie, both players score 1 point.
- > The player with more points after 8 rounds of play is the winner.

Take It Further:

Play the game again. This time, use 4 sets of digit cards.

Name	Date
Name	Date

Master 2.11

Additional Activity 3: Powerful Products

Work with a partner.

You will need 2 sets of digit cards each numbered 0 to 9.

- Shuffle the digit cards and place them face down on the table. Each player takes 3 cards.
- > Arrange your cards to make a 2-digit by 1-digit multiplication problem with the greatest product. Record your multiplication problem.
- Compare your product and your partner's product. The player with the greater product scores 1 point.
- > Play continues for 6 rounds. The player with the greater score wins.

Take It Further:

Play the game again. This time, take 4 cards each. Make a 2-digit by 2-digit multiplication problem. The player with the greater product scores a point.

Name	Date
------	------

Master 2.12a)

Additional Activity 4: The Range Game

Play with a partner.

Your teacher will give you a set of range cards.

- Shuffle the range cards and place them facedown in a pile. Take turns to select a range card.
- Player 1 chooses a factor and finds the product or quotient. If the result is in the range, Player 1 scores a point. If not, Player 2 chooses a factor and finds the product or quotient.
- Play continues until one player chooses a factor that gives a result in the range. That player scores 1 point.
- > The first player to score 5 points wins.

Take It Further:

Make your own set of range cards.

Trade sets with another pair of students and play the game.

Name _____ Date ____

Master 2.12b)

Range Cards

$36 \times \square$ Product is between 1900 and 2000.	9477 ÷ □ Quotient is between 1050 and 1350.	73 × □ Product is between 1600 and 2000.
8188 ÷ □ Quotient is between 1640 and 2040.	$59 \times \square$ Product is between 3050 and 3190.	2007 ÷ □ Quotient is between 330 and 600.
14 × □ Product is between 125 and 175.	7621 ÷ □ Quotient is between 950 and 1270.	61 × □ Product is between 3900 and 4150.
6850 ÷ □ Quotient is between 1700 and 2300.	49 × □ Product is between 780 and 980.	763 ÷ □ Quotient is between 105 and 155.
4 × □ Product is between 2730 and 2780.	5435 ÷ □ Quotient is between 600 and 900.	9 × □ Product is between 1280 and 1440.