To Parents and Adults at Home...

Your child's class is starting a mathematics unit on addition and subtraction. Your child will develop strategies for adding and subtracting whole numbers by using addition charts, mental math, estimation, Base Ten Blocks, place-value mats, and pencil and paper.

In this unit, your child will:
- Recall basic addition and subtraction facts
- Identify and apply relationships between addition and subtraction
- Add and subtract 2-digit numbers
- Use mental math to add and subtract
- Estimate sums and differences
- Add and subtract 3-digit numbers

The ability to use a variety of strategies to add and subtract leads to the development of a strong sense of number.

Here are some suggestions for activities you can do with your child.

- Play Store with your child. Price some of the items in your home in cents (for example, the cup of noodles costs 149 cents and the baguette costs 35 cents). You are the Shopper and your child is the Cashier. Have your child add the cost of the items you buy.
- Roll a number cube 4 times. Use the numbers rolled to make two 2-digit numbers. Have your child subtract the lesser number from the greater number. Repeat the activity. This time, roll the number cube 6 times and make two 3-digit numbers.
Lesson 1: Strategies for Addition Facts

   a) 5 + 6          b) 8 + 6          c) 2 + 3

2. Add. Making or using ten might help you.
   a) 9 + 5          b) 8 + 4          c) 7 + 4

3. Sonya bought 13 cookies at the bake sale. When she took the cookies home, her brother ate 7 of them. How many cookies does Sonya have left?

Lesson 2: Relating Addition and Subtraction

1. Write the related facts for each fact.
   a) 7 + 8 = 15          b) 3 + 8 = 11
   c) 14 − 9 = 5          d) 11 − 7 = 4

2. Write a set of related facts that uses each set of numbers.
   a) 16, 8, 8          b) 7, 5, 12
   c) 9, 4, 13          d) 8, 6, 14

3. There are 13 children on the bus. Seven are from Grade 2. The rest are from Grade 3. How many are from Grade 3?
Lesson 3: Addition and Subtraction Equations

1. Solve each equation. Explain your strategy.
   a) \[ \square + 7 = 17 \]  
   b) \[ \square - 6 = 11 \]
   c) \[ \square - 4 = 7 \]
   d) \[ 18 - \square = 5 \]

For questions 2 and 3, write an equation with a missing number. Solve the equation with a strategy of your choice.

2. Eva had 13 animal stickers. She gave some of her animal stickers to Kris. Eva has 6 stickers left. How many stickers did Eva give to Kris?

3. There are 7 soccer balls in a bin. Shawna put some more soccer balls in the bin. Now there are 12 soccer balls in the bin. How many soccer balls did Shawna put into the bin?

Lesson 4: Estimating Sums

1. Which number is the better estimate for each sum?
   a) \[ 57 + 79 = 130 \text{ or } 140? \]  
   b) \[ 12 + 37 = 50 \text{ or } 60? \]

2. Nemo and Dory went to the local pet store. Nemo counted 32 orange clown fish. Dory counted 24 blue tetras. About how many fish did they count altogether?

3. Stella has 39 movies on DVD and 27 movies on videotape. About how many movies does Stella have?
Lesson 5: Adding 2-Digit Numbers

1. Add.
   a) $52 + 16$
   b) $63 + 11$
   c) $48 + 25$
   d) $37 + 49$

2. Add. What patterns do you see?
   a) $30 + 30$
   b) $20 + 10$
   $31 + 29$
   $32 + 28$
   $33 + 27$
   $20 + 11$
   $20 + 12$
   $20 + 13$

3. Mr. DeCastro’s class is collecting cereal boxes for an art project.
   On Monday, the children brought in 26 boxes.
   On Wednesday, the children brought in 48 boxes.
   How many boxes did they bring in altogether?

Lesson 6: Using Mental Math to Add

1. Add.
   a) $22 + 49$
   b) $33 + 25$
   c) $34 + 57$
   d) $66 + 14$

2. Justin and Priya went apple picking.
   Justin picked 34 apples and Priya picked 28 apples.
   How many apples did they pick altogether?

3. During a car ride, Romy and Victor decided to count trucks. Romy counted 33 silver trucks and Victor counted 57 black trucks. How many trucks did they count altogether?
Lesson 7: Adding 3-Digit Numbers

1. Add.
   a) 369 + 246
   b) 357 + 591
   c) 508 + 435
   d) 735 + 123

2. Add. See how many you can do mentally.
   a) 235 + 360
   b) 426 + 534
   c) 175 + 300
   d) 632 + 228

3. A store sold 136 pairs of shoes on Friday and 278 pairs of shoes on Saturday.
   How many pairs of shoes did the store sell over the 2 days?

Lesson 8: Estimating Differences

1. Which number is the better estimate for each sum?
   a) 76 – 45 = 20 or 30?
   b) 56 – 17 = 30 or 40?

2. Anika had 78 stickers. She gave away 57 stickers.
   About how many stickers does Anika have now?

3. There are 83 people at a picnic.
   Twenty-nine people leave to go to a soccer game.
   About how many people are still at the picnic?
Lesson 9: Subtracting 2-Digit Numbers

1. Subtract.
   a) 76 – 33  
   b) 88 – 45
   c) 55 – 27  
   d) 51 – 29

2. Subtract. What patterns do you see?
   a) 50 – 30 
   b) 55 – 30
   51 – 31 
   55 – 31
   52 – 32 
   55 – 32
   53 – 33 
   55 – 33

3. Mr. DeCastro's class is collecting cereal boxes for an art project. On Monday, the children brought in 26 boxes. On Wednesday, the children brought in 43 boxes. How many more boxes did they bring on Wednesday than on Monday?

Lesson 10: Using Mental Math to Subtract

1. Subtract.
   a) 35 – 17  
   b) 78 – 55
   d) 67 – 25  
   e) 47 – 18
   c) 56 – 49  
   f) 99 – 77

2. Subtract. What patterns do you see?
   a) 58 – 10  
   b) 99 – 10
   58 – 20 
   89 – 20
   58 – 30 
   79 – 30
   58 – 40 
   69 – 40

3. There were 37 vans in the parking lot. More vans parked, and then there were 53 vans. How many more vans parked?
Lesson 11: Subtracting 3-Digit Numbers

1. Subtract.
   a) 864  
   \[ \begin{array}{c}
   \underline{\text{64}} \\
   \underline{\text{231}} \\
   \end{array} \]
   643
   b) 758  
   \[ \begin{array}{c}
   \underline{\text{58}} \\
   \underline{\text{494}} \\
   \end{array} \]
   274
   c) 675  
   \[ \begin{array}{c}
   \underline{\text{75}} \\
   \underline{\text{111}} \\
   \end{array} \]
   564
   d) 937  
   \[ \begin{array}{c}
   \underline{\text{37}} \\
   \underline{\text{556}} \\
   \end{array} \]
   421

2. Subtract.
   a) 438 – 370
   b) 842 – 767
   c) 321 – 222
   d) 500 – 228

3. Mrs. Kamel’s class has 565 coloured cubes.
   Mr. Reeve’s class has 954.
   How many more coloured cubes does Mr. Reeve’s class have?

Lesson 12: Solving Addition and Subtraction Problems

1. Parkside School was collecting things to recycle.
   Children brought in 277 cans and 125 bottles.
   How many cans and bottles were brought in?

2. Fasil’s dad went on a business trip.
   On the first day, he drove 358 km.
   On the second day, he drove 521 km.
   How much farther did he drive on the second day?

3. Aaron and Asif collected cans for a recycling drive at their school.
   Aaron collected 387 cans and Asif collected 278 cans.
   a) Who collected more cans?
   b) How many more cans did he collect?
   c) How many cans did they collect altogether?
Master 3.11

Additional Activity 4:
Let’s Go Shopping!

Play in groups of 3.

You will need classroom objects, price tags, play money, and a calculator.

Gather objects in the class to be for sale.
Put price tags on each object.
Each price should be more than 10 cents, but less than 50 cents.
Decide who will be the cashier and who will be the shoppers.

➤ The shoppers start with $1 each.

➤ Each shopper chooses 1 or 2 objects to buy.

➤ Find the total cost of your objects.
   Find how much change you will get.
   Record your work.

➤ Take your objects to the cashier.
   The cashier uses a calculator to check your work.

Take It Further
The shoppers compare the total cost of the objects they bought.
They calculate the sum and the difference.
The cashier uses a calculator to check.