



**Convent &
Stuart Hall**

Schools of the Sacred Heart San Francisco

Entering 3rd Grade Summer Math Engagement

Name: _____

Summer Engagement Philosophy: Summer should be a time for fun, relaxation, and family time. However, intentional practice of math skills has been shown to be helpful for student retention of topics learned during the previous school year. This packet is designed to **review** some essential skills/concepts/math facts to ensure a smooth transition back to school.

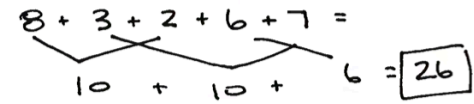
Expectations: Students are expected to complete the packet of practice problems. Our goal is for students to spread out this practice with approximately one page per week so there is a continual engagement with mathematics. At the end of the packet, there is a list of extra games/resources that are also encouraged for additional practice. Students will be turning this packet in to their teacher to check on the first day of school. This is intended to be a part of the first check for understanding prior to our beginning of year Inventory Assessments.

What parents can do to support their child:

- Make a practice plan and help your child set goals in order to complete the required work by the start of the school year. Spacing the practice throughout the summer will be more effective in terms of keeping skill sets in place (ex: Monday Math fun!)
- Establish a place where your child can work without distractions and encourage independence when appropriate.

Week 1: Addition Facts

Example:

$$8 + 3 + 2 + 6 + 7 =$$

$$10 + 10 + 6 = \boxed{26}$$

Add the number strings below.
(Find tens)

$6 + 3 + 1 + 2 + 2 + 8 = \underline{\hspace{2cm}}$

$9 + 1 + 5 + 2 + 5 = \underline{\hspace{2cm}}$

$13 + 4 + 8 + 5 + 6 + 22 = \underline{\hspace{2cm}}$

$16 + 3 + 4 + 2 + 7 + 1 = \underline{\hspace{2cm}}$

$13 + 2 + 5 + 4 + 5 + 18 = \underline{\hspace{2cm}}$

$1 + 9 + 1 + 5 + 3 + 7 = \underline{\hspace{2cm}}$

$12 + 2 + 8 + 4 + 6 + 21 = \underline{\hspace{2cm}}$

$23 + 13 + 3 + 8 + 2 + 7 = \underline{\hspace{2cm}}$

Week 2: Subtraction Facts Practice

$10 - 8 = \underline{\quad}$

$12 - 6 = \underline{\quad}$

$7 - 5 = \underline{\quad}$

$8 - 3 = \underline{\quad}$

$12 - 4 = \underline{\quad}$

$11 - 6 = \underline{\quad}$

$9 - 6 = \underline{\quad}$

$12 - 7 = \underline{\quad}$

$8 - 6 = \underline{\quad}$

$9 - 3 = \underline{\quad}$

$11 - 2 = \underline{\quad}$

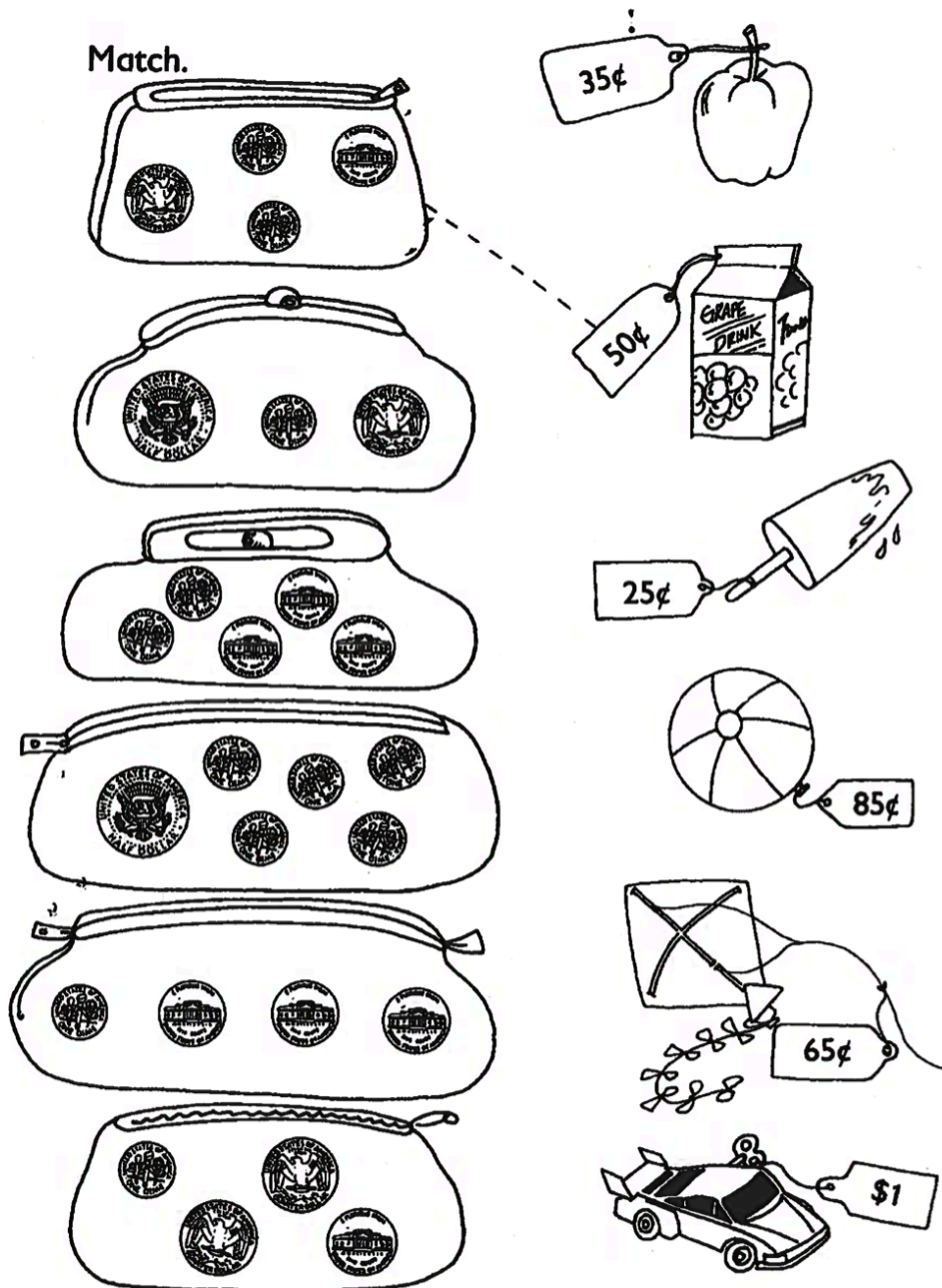
$11 - 4 = \underline{\quad}$

$11 - 8 = \underline{\quad}$

$12 - 3 = \underline{\quad}$

Week 3: Money Value Practice

Match.



Addition Facts Practice:

$$14 + 3 + 6 + 7 + 2 + 18 = \underline{\hspace{2cm}}$$

$$11 + 9 + 7 + 4 + 3 + 2 = \underline{\hspace{2cm}}$$

$$9 + 2 + 5 + 4 + 5 + 11 = \underline{\hspace{2cm}}$$

$$12 + 8 + 1 + 5 + 3 + 7 = \underline{\hspace{2cm}}$$

Week 4: Word Problems

1. After giving away 9 shells, John had 6 shells left. How many shells did he have at first?
2. Nicole bought 12 pastries. She put 4 of them on a plate. She put the rest in a box. How many pastries were there in the box?
3. Mary has 11 story books. She has 4 more than Sally. How many story books does Sally have?
4. Preston has 5 toy cars. He wants to replace all the wheels with new extra fast rubber wheels. The new wheels cost \$1 each. How much money does Preston need for new wheels?
5. Brody's family went for a walk after dinner. There were 3 people and 2 dogs on the walk. They all stepped in a huge puddle. How many feet (and paws) are on the walk?

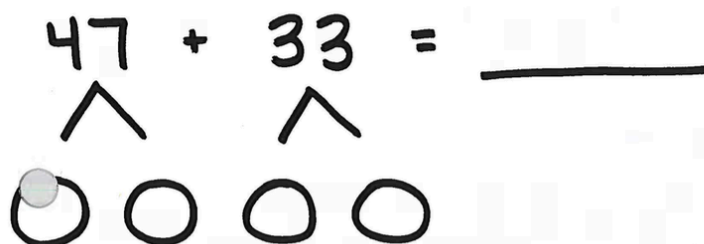
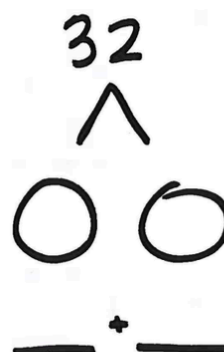
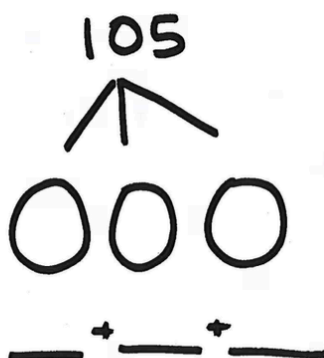
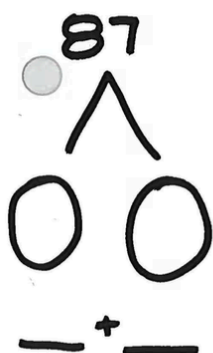
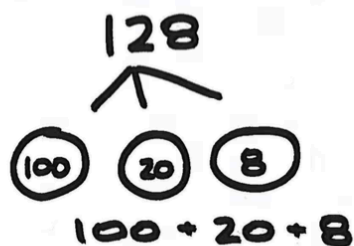
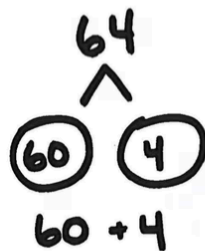
6. How many cans of paint are in the picture below:



7. **Challenge:** If a can cost \$3 and James buys four cans of paint using a \$20 bill, how much money will he have left?

Week 5: Break into Place Value:

Example:



Math Facts Practice:

1. 3
+ 5
_

2. 7
+ 3
_

3. 6
+ 5
_

4. 7
+ 8
_

5. 4 + 4 = _____

6. 7 + 2 = _____

7. 6 + 4 = _____

8. 9 + 3 = _____

9. 6 + 7 = _____

10. 9 + 9 = _____

Go On ➔

What numbers come next? 5, 10, 15, _____, _____, _____

Week 6: Mystery Number Practice

$$\begin{array}{l} \square + \triangle = 11 \\ \square - \triangle = 1 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \square + \triangle = 12 \\ \square - \triangle = 4 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \square + \triangle = 12 \\ \square - \triangle = 2 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \square + \triangle = 10 \\ \square - \triangle = 2 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \square + \triangle = 10 \\ \square - \triangle = 6 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \square + \triangle = 11 \\ \square - \triangle = 3 \\ \square = \underline{\hspace{2cm}} \\ \triangle = \underline{\hspace{2cm}} \end{array}$$

Math Facts Practice:

$$\begin{array}{r} 1. \ 5 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \ 4 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 9 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \ 4 \\ + 9 \\ \hline \end{array}$$

$$5. \ 3 + 4 = \underline{\hspace{2cm}}$$

$$6. \ 3 + 7 = \underline{\hspace{2cm}}$$

$$7. \ 7 + 5 = \underline{\hspace{2cm}}$$

$$8. \ 4 + 8 = \underline{\hspace{2cm}}$$

$$9. \ 9 + 8 = \underline{\hspace{2cm}}$$

$$10. \ 8 + 7 = \underline{\hspace{2cm}}$$

Go On Write three facts that equal 13.

Week 7: Mystery Number Practice

Clue: All squares on this page are 2-digit numbers:

$$\square + \triangle = 17$$

$$\square - \triangle = 5$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square + \triangle = 18$$

$$\square - \triangle = 10$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square + \triangle = 16$$

$$\square - \triangle = 8$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square + \triangle = 17$$

$$\square - \triangle = 9$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square + \triangle = 17$$

$$\square - \triangle = 7$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

$$\square + \triangle = 18$$

$$\square - \triangle = 8$$

$$\square = \underline{\hspace{2cm}}$$

$$\triangle = \underline{\hspace{2cm}}$$

Math Facts Practice:

$$\begin{array}{r} 1. \ 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \ 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \ 9 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \ 5 \\ + 9 \\ \hline \end{array}$$

$$5. \ 7 + 2 = \underline{\hspace{2cm}}$$

$$6. \ 1 + 8 = \underline{\hspace{2cm}}$$

$$7. \ 6 + 5 = \underline{\hspace{2cm}}$$

$$8. \ 5 + 8 = \underline{\hspace{2cm}}$$

$$9. \ 7 + 7 = \underline{\hspace{2cm}}$$

$$10. \ 8 + 9 = \underline{\hspace{2cm}}$$



What numbers come next? 3, 6, 9, , ,

Week 8: Making Equations Practice:

Use 1, 2, and 4 to complete these number sentences.

1. $\square - \square - \square = 1$

2. $\square + \square - \square = 3$

Use 1, 3, and 6 to complete these number sentences.

3. $\square - \square + \square = 4$

4. $\square - \square - \square = 2$

Use 1, 3, and 5 to complete these number sentences.

5. $\square + \square - \square = 7$

6. $\square + \square - \square = 3$

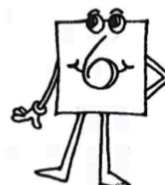
Use + or - signs to complete these number sentences.

7. $4 \square 3 \square 2 = 5$

8. $4 \square 3 \square 2 = 3$

9. $5 \square 3 \square 1 = 7$

10. $5 \square 3 \square 1 = 3$



Math Facts Practice:

1. 4
 $+ 2$
—

2. 2
 $+ 8$
—

3. 6
 $+ 6$
—

4. 8
 $+ 6$
—

5. $3 + 3 =$ —

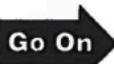
6. $2 + 7 =$ —

7. $5 + 7 =$ —

8. $9 + 4 =$ —

9. $6 + 9 =$ —

10. $8 + 7 =$ —

Go On 

Write three facts that equal 12.

Week 9: Making Equations Practice

Use 4, 5, and 8 to complete these number sentences.

1. $\square - \square + \square = 7$

2. $\square + \square - \square = 1$

3. $\square - \square + \square = 9$

Use 7, 8, and 9 to complete these number sentences.

4. $\square + \square - \square = 6$

5. $\square + \square - \square = 8$

6. $\square - \square + \square = 10$

Use + or - signs to complete these number sentences.

7. $9 \square 4 \square 5 = 10$

8. $9 \square 4 \square 5 = 8$

9. $9 \square 4 \square 5 = 18$

Show how many different equations you can make using 9, 6, and 2.

Math Facts Practice:

1. $15 + 7 = \underline{\hspace{2cm}}$ 2. $32 + 4 + 5 = \underline{\hspace{2cm}}$ 3. $54 + 9 = \underline{\hspace{2cm}}$

4. $43 + 9 = \underline{\hspace{2cm}}$ 5. $56 + 23 = \underline{\hspace{2cm}}$

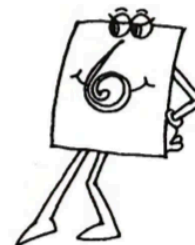
6. $\begin{array}{r} 63 \\ + 8 \\ \hline \end{array}$

7. $\begin{array}{r} 68 \\ + 7 \\ \hline \end{array}$

8. $\begin{array}{r} 45 \\ + 27 \\ \hline \end{array}$

9. $\begin{array}{r} 37 \\ + 48 \\ \hline \end{array}$

10. $\begin{array}{r} 125 \\ + 6 \\ \hline \end{array}$



Go On 

Write three equations that equal 25.

Week 10: Finding Subtraction Pairs:

Use the numbers in the box to create subtraction problems.

75	25
50	15

$$\underline{\quad} - \underline{\quad} = 50$$

$$\underline{\quad} - \underline{\quad} = 10$$

$$\underline{\quad} - \underline{\quad} = 60$$

$$\underline{\quad} - \underline{\quad} = 25$$

51	21
31	7

$$\underline{\quad} - \underline{\quad} = 30$$

$$\underline{\quad} - \underline{\quad} = 14$$

$$\underline{\quad} - \underline{\quad} = 44$$

$$\underline{\quad} - \underline{\quad} = 24$$

49	29
39	11

$$\underline{\quad} - \underline{\quad} = 20$$

$$\underline{\quad} - \underline{\quad} = 38$$

$$\underline{\quad} - \underline{\quad} = 28$$

$$\underline{\quad} - \underline{\quad} = 18$$

65	35
55	16

$$\underline{\quad} - \underline{\quad} = 19$$

$$\underline{\quad} - \underline{\quad} = 30$$

$$\underline{\quad} - \underline{\quad} = 39$$

$$\underline{\quad} - \underline{\quad} = 49$$

Make two new differences by using the numbers in the box.

42	12
22	15

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$



Three digit challenge:

$$\begin{array}{r} 349 \\ + 76 \\ \hline \end{array}$$

$$\begin{array}{r} 238 \\ + 756 \\ \hline \end{array}$$

$$\begin{array}{r} 135 \\ + 624 \\ \hline \end{array}$$

$$\begin{array}{r} 624 \\ - 86 \\ \hline \end{array}$$

$$\begin{array}{r} 718 \\ - 656 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 53 \\ \hline \end{array}$$

Additional Games and Resources:

Games:

Qwirkle	Catan (Jr)	Sorry
Mastermind	PayDay	Uno
Flip 4	Monopoly	Dominos
Make 7	Chutes and Ladders	Spot It
Ken-Ken/Sudoku/Inkie	Connect Four	Chess
Battleship	Guess Who	
Ticket to Ride	Fishing for 10	

Math Websites:

Youcubed: <http://youcubed.org>

Website by Jo Boaler with weekly tasks and some free online classes for students from Stanford.

Beast Academy: <http://beastacademy.com/books>

Math-related books for all ages!

PBS Kids Cyber Games: <http://pbskids.org/cyberchase>

Free math games, as well as other subject areas

Summer Enrichment Camps:

Berkeley Academic Talent Development Program

Elementary sessions run in July

Art of Problem Solving Summer Camps

Offers both in-person and virtual options

