

Dear Rising 5th Grader,

Welcome! We are so happy to have you as a member of our team! We want you to enjoy your summer vacations AND make sure you are ready for 5th grade in the fall.

Please take some time this summer to practice your math skills by completing the required work. This packet has some review of all four operations with whole numbers, as well as addition and subtraction of fractions, and some work on place value.

Complete this packet and return it to school on the first day back. You can give it to your new math teacher! This will count as your first math grade of the year, so do your best.

Also, if you would like some additional practice (because you LOVE math!), visit www.gregtangmath.com. There are some great games there like Kakooma, Numtanga, Minus Mania, and Ten Frame Mania. This is a fun way to practice your math skills.

We hope you have an outstanding summer and can't wait to get to know you as students, mathematicians, and people!

Love,

Mrs. Waterhouse, Ms. Davidson, and Mrs. Hegarty

Place Value

numeration

In the number below, the underlined digit, 6, is in the hundred thousands place. It has a **place value** of 600,000.

Millions						Thousands			Ones		
Hundred Billions	Ten Billions	Billions	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
		5	5	0	3	<u>6</u>	7	3	9	8	2

Study the example and the chart above. Then, write the value of each underlined digit.

A. 3,741

4,825

75,408

B. 10,830

1,453,281

23,486,125

C. 57,201

782,113

128,463

D. 447,038,974

3,173,414

320,108,400

E. 725,953

264,638,458

646,389

F. Write two 6-digit numbers so that one is exactly one thousand more than the other.

Adding Larger Numbers

addition and subtraction

First, add the ones column.	Next, add the tens column.	Then, add the hundreds column.	Last, add the thousands column.
$\begin{array}{r} \overset{1}{2,537} \\ + 4,724 \\ \hline 1 \end{array}$	$\begin{array}{r} \overset{1}{2,537} \\ + 4,724 \\ \hline 61 \end{array}$	$\begin{array}{r} \overset{1}{2,537} \\ + 4,724 \\ \hline 261 \end{array}$	$\begin{array}{r} \overset{1}{2,537} \\ + 4,724 \\ \hline 7,261 \end{array}$

Study the example above. Then, find each sum.

- A.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 4,510 \\ + 4,689 \\ \hline \end{array}$ | $\begin{array}{r} 7,166 \\ + 5,622 \\ \hline \end{array}$ | $\begin{array}{r} 2,198 \\ + 2,516 \\ \hline \end{array}$ | $\begin{array}{r} 6,043 \\ + 6,428 \\ \hline \end{array}$ | $\begin{array}{r} 4,025 \\ + 1,298 \\ \hline \end{array}$ |
|---|---|---|---|---|
- B.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 1,889 \\ + 8,458 \\ \hline \end{array}$ | $\begin{array}{r} 7,168 \\ + 2,362 \\ \hline \end{array}$ | $\begin{array}{r} 5,530 \\ + 9,022 \\ \hline \end{array}$ | $\begin{array}{r} 6,046 \\ + 5,539 \\ \hline \end{array}$ | $\begin{array}{r} 2,270 \\ + 8,696 \\ \hline \end{array}$ |
|---|---|---|---|---|
- C.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 8,979 \\ + 3,285 \\ \hline \end{array}$ | $\begin{array}{r} 5,328 \\ + 5,991 \\ \hline \end{array}$ | $\begin{array}{r} 6,135 \\ + 1,170 \\ \hline \end{array}$ | $\begin{array}{r} 2,030 \\ + 6,537 \\ \hline \end{array}$ | $\begin{array}{r} 1,947 \\ + 1,835 \\ \hline \end{array}$ |
|---|---|---|---|---|
- D.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 7,564 \\ + 5,167 \\ \hline \end{array}$ | $\begin{array}{r} 3,504 \\ + 1,606 \\ \hline \end{array}$ | $\begin{array}{r} 3,044 \\ + 4,492 \\ \hline \end{array}$ | $\begin{array}{r} 5,013 \\ + 8,362 \\ \hline \end{array}$ | $\begin{array}{r} 3,501 \\ + 4,530 \\ \hline \end{array}$ |
|---|---|---|---|---|
- E.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 2,044 \\ + 5,367 \\ \hline \end{array}$ | $\begin{array}{r} 9,600 \\ + 8,664 \\ \hline \end{array}$ | $\begin{array}{r} 7,187 \\ + 3,436 \\ \hline \end{array}$ | $\begin{array}{r} 2,385 \\ + 5,652 \\ \hline \end{array}$ | $\begin{array}{r} 3,643 \\ + 7,244 \\ \hline \end{array}$ |
|---|---|---|---|---|
- F.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 28,734 \\ + 60,828 \\ \hline \end{array}$ | $\begin{array}{r} 55,877 \\ + 66,244 \\ \hline \end{array}$ | $\begin{array}{r} 46,780 \\ + 46,687 \\ \hline \end{array}$ | $\begin{array}{r} 65,464 \\ + 98,795 \\ \hline \end{array}$ | $\begin{array}{r} 24,336 \\ + 55,051 \\ \hline \end{array}$ |
|---|---|---|---|---|
- G.**
- | | | | | |
|---|---|---|---|---|
| $\begin{array}{r} 26,634 \\ + 24,997 \\ \hline \end{array}$ | $\begin{array}{r} 75,019 \\ + 82,226 \\ \hline \end{array}$ | $\begin{array}{r} 66,777 \\ + 19,607 \\ \hline \end{array}$ | $\begin{array}{r} 44,041 \\ + 17,092 \\ \hline \end{array}$ | $\begin{array}{r} 70,292 \\ + 40,323 \\ \hline \end{array}$ |
|---|---|---|---|---|

Subtracting Larger Numbers

addition and subtraction

Study the example on page 16. Then, find each difference.

A.
$$\begin{array}{r} 3,186 \\ - 2,123 \\ \hline \end{array}$$

$$\begin{array}{r} 7,964 \\ - 1,280 \\ \hline \end{array}$$

$$\begin{array}{r} 6,522 \\ - 4,910 \\ \hline \end{array}$$

$$\begin{array}{r} 5,885 \\ - 5,347 \\ \hline \end{array}$$

$$\begin{array}{r} 6,733 \\ - 5,942 \\ \hline \end{array}$$

B.
$$\begin{array}{r} 9,901 \\ - 4,576 \\ \hline \end{array}$$

$$\begin{array}{r} 9,483 \\ - 7,376 \\ \hline \end{array}$$

$$\begin{array}{r} 8,436 \\ - 4,987 \\ \hline \end{array}$$

$$\begin{array}{r} 6,625 \\ - 1,784 \\ \hline \end{array}$$

$$\begin{array}{r} 5,167 \\ - 1,170 \\ \hline \end{array}$$

C.
$$\begin{array}{r} 85,350 \\ - 4,383 \\ \hline \end{array}$$

$$\begin{array}{r} 87,401 \\ - 9,289 \\ \hline \end{array}$$

$$\begin{array}{r} 81,761 \\ - 815 \\ \hline \end{array}$$

$$\begin{array}{r} 97,342 \\ - 5,052 \\ \hline \end{array}$$

$$\begin{array}{r} 68,797 \\ - 8,749 \\ \hline \end{array}$$

D.
$$\begin{array}{r} 60,721 \\ - 9,485 \\ \hline \end{array}$$

$$\begin{array}{r} 66,595 \\ - 4,684 \\ \hline \end{array}$$

$$\begin{array}{r} 74,118 \\ - 3,982 \\ \hline \end{array}$$

$$\begin{array}{r} 33,688 \\ - 1,962 \\ \hline \end{array}$$

$$\begin{array}{r} 97,810 \\ - 5,219 \\ \hline \end{array}$$

E.
$$\begin{array}{r} 90,646 \\ - 86,247 \\ \hline \end{array}$$

$$\begin{array}{r} 75,460 \\ - 16,933 \\ \hline \end{array}$$

$$\begin{array}{r} 46,054 \\ - 13,241 \\ \hline \end{array}$$

$$\begin{array}{r} 16,470 \\ - 14,549 \\ \hline \end{array}$$

$$\begin{array}{r} 84,192 \\ - 39,559 \\ \hline \end{array}$$

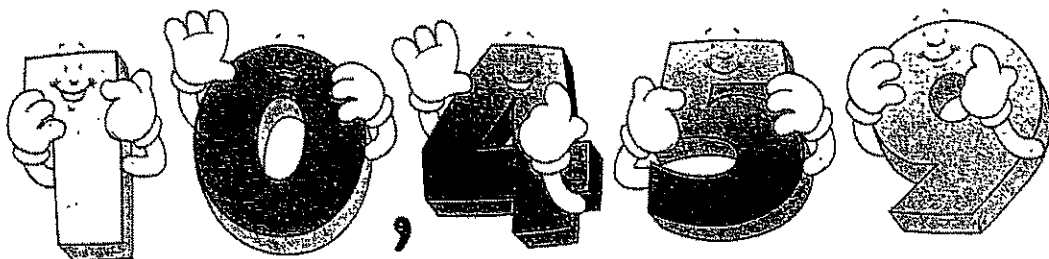
F.
$$\begin{array}{r} 99,543 \\ - 54,109 \\ \hline \end{array}$$

$$\begin{array}{r} 79,583 \\ - 58,149 \\ \hline \end{array}$$

$$\begin{array}{r} 25,911 \\ - 20,300 \\ \hline \end{array}$$

$$\begin{array}{r} 51,313 \\ - 46,851 \\ \hline \end{array}$$

$$\begin{array}{r} 99,564 \\ - 98,300 \\ \hline \end{array}$$



Problem solving means using the numbers in a story to solve a math problem.

Example: Tyler drove his toy car 1,089 inches. Alexis drove her toy car 2,802 inches. How many more inches did Alexis drive her car than Tyler?

$$\begin{array}{r}
 802 \\
 - 1,089 \\
 \hline
 1,713
 \end{array}$$

⁷⁹
 2,802 distance Alexis drove her car
 - 1,089 distance Tyler drove his car
 1,713 difference in the distances

Alexis drove her car 1,713 inches more than Tyler drove his car.

Study the example above. Then, solve each problem.

A. The Toy Time toy factory made 1,492 yellow yo-yos and 4,201 red yo-yos. How many more red yo-yos were made than yellow yo-yos?

B. Sarah has 246 animal stickers and 432 flower stickers. How many stickers does Sarah have altogether?

C. The Toy Time factory made 1,648 board games, 2,190 dolls, and 4,018 race cars. How many toys did they make in all?

D. Kevin and his friends kept track of how far they flew their model airplanes. Josh flew his plane 549 feet. Annie flew hers 418 feet. Kevin flew his plane 376 feet. How many feet did their airplanes fly altogether?

E. The Toy Time Web site had 631 visitors in 1 week. If the same number of people visited their Web site each week, how many people visited the site in 3 weeks?

F. Jack has \$20.00 in his pocket. He spends \$1.16 playing video games and \$2.59 on comic books. How much money does Jack have left?

Name _____

Skill: Multiplying Two Digit Numbers

Multiply.

1. $\begin{array}{r} 41 \\ \times 18 \\ \hline \end{array}$

2. $\begin{array}{r} 38 \\ \times 22 \\ \hline \end{array}$

3. $\begin{array}{r} 64 \\ \times 47 \\ \hline \end{array}$

4. $\begin{array}{r} 68 \\ \times 32 \\ \hline \end{array}$

5. $\begin{array}{r} 72 \\ \times 43 \\ \hline \end{array}$

6. $\begin{array}{r} 53 \\ \times 38 \\ \hline \end{array}$

7. $\begin{array}{r} 36 \\ \times 12 \\ \hline \end{array}$

8. $\begin{array}{r} 82 \\ \times 51 \\ \hline \end{array}$

9. $\begin{array}{r} 42 \\ \times 18 \\ \hline \end{array}$

10. $\begin{array}{r} 72 \\ \times 63 \\ \hline \end{array}$

11. $\begin{array}{r} 53 \\ \times 46 \\ \hline \end{array}$

12. $\begin{array}{r} 62 \\ \times 43 \\ \hline \end{array}$

13. $\begin{array}{r} 25 \\ \times 17 \\ \hline \end{array}$

14. $\begin{array}{r} 86 \\ \times 42 \\ \hline \end{array}$

15. $\begin{array}{r} 83 \\ \times 27 \\ \hline \end{array}$

16. $\begin{array}{r} 52 \\ \times 30 \\ \hline \end{array}$

17. $\begin{array}{r} 81 \\ \times 72 \\ \hline \end{array}$

18. $\begin{array}{r} 91 \\ \times 43 \\ \hline \end{array}$

19. $\begin{array}{r} 35 \\ \times 28 \\ \hline \end{array}$

20. $\begin{array}{r} 70 \\ \times 60 \\ \hline \end{array}$

21. $\begin{array}{r} 86 \\ \times 75 \\ \hline \end{array}$

22. $\begin{array}{r} 56 \\ \times 13 \\ \hline \end{array}$

23. $\begin{array}{r} 49 \\ \times 28 \\ \hline \end{array}$

24. $\begin{array}{r} 73 \\ \times 56 \\ \hline \end{array}$

25. $\begin{array}{r} 54 \\ \times 27 \\ \hline \end{array}$

Total Problems 25 Problems Correct _____

Name _____

Skill: Dividing by One Digit Numbers
—with Remainders

Divide.

1. $4 \overline{)873}$

2. $5 \overline{)527}$

3. $3 \overline{)784}$

4. $4 \overline{)862}$

5. $5 \overline{)943}$

6. $2 \overline{)597}$

7. $4 \overline{)486}$

8. $2 \overline{)733}$

9. $8 \overline{)957}$

10. $9 \overline{)973}$

11. $3 \overline{)629}$

12. $8 \overline{)937}$

13. $9 \overline{)987}$

14. $4 \overline{)574}$

15. $2 \overline{)301}$

16. $3 \overline{)574}$

17. $7 \overline{)915}$

18. $6 \overline{)653}$

19. $5 \overline{)637}$

20. $4 \overline{)653}$

Total Problems 20 Problems Correct _____

Name _____

Skill: Adding Fractions with the Same Denominators

Add the fractions and write the answers in simplest form.

$$\begin{array}{r} 1. \quad \frac{2}{7} \\ + \frac{3}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \frac{1}{5} \\ + \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \frac{4}{8} \\ + \frac{2}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \frac{2}{10} \\ + \frac{4}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \frac{2}{6} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \frac{6}{8} \\ + \frac{1}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \frac{3}{5} \\ + \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \frac{6}{7} \\ + \frac{5}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \frac{3}{4} \\ + \frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \frac{2}{9} \\ + \frac{1}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \frac{7}{10} \\ + \frac{9}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \frac{1}{4} \\ + \frac{2}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad \frac{1}{8} \\ + \frac{5}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad \frac{2}{3} \\ + \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad \frac{5}{12} \\ + \frac{5}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad \frac{3}{7} \\ + \frac{1}{7} \\ \hline \end{array}$$

$$\begin{array}{r} 17. \quad \frac{1}{5} \\ + \frac{3}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad \frac{2}{8} \\ + \frac{4}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad \frac{4}{9} \\ + \frac{3}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad \frac{1}{6} \\ + \frac{3}{6} \\ \hline \end{array}$$

Total Problems 20 Problems Correct

Name _____

Skill: Subtracting Fractions with the Same Denominators

Subtract the fractions and write the answers in simplest form.

1.
$$\begin{array}{r} \frac{5}{6} \\ - \frac{1}{6} \\ \hline \end{array}$$

2.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{3}{8} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{3}{10} \\ - \frac{1}{10} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{15}{16} \\ - \frac{11}{16} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{3}{4} \\ - \frac{1}{4} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{7}{12} \\ - \frac{5}{12} \\ \hline \end{array}$$

7.
$$\begin{array}{r} \frac{5}{7} \\ - \frac{2}{7} \\ \hline \end{array}$$

8.
$$\begin{array}{r} \frac{7}{9} \\ - \frac{1}{9} \\ \hline \end{array}$$

9.
$$\begin{array}{r} \frac{4}{5} \\ - \frac{2}{5} \\ \hline \end{array}$$

10.
$$\begin{array}{r} \frac{13}{15} \\ - \frac{11}{15} \\ \hline \end{array}$$

11.
$$\begin{array}{r} \frac{9}{14} \\ - \frac{1}{14} \\ \hline \end{array}$$

12.
$$\begin{array}{r} \frac{9}{11} \\ - \frac{1}{11} \\ \hline \end{array}$$

13.
$$\begin{array}{r} \frac{5}{8} \\ - \frac{1}{8} \\ \hline \end{array}$$

14.
$$\begin{array}{r} \frac{2}{3} \\ - \frac{1}{3} \\ \hline \end{array}$$

15.
$$\begin{array}{r} \frac{9}{10} \\ - \frac{7}{10} \\ \hline \end{array}$$

16.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{5}{8} \\ \hline \end{array}$$

17.
$$\begin{array}{r} \frac{5}{9} \\ - \frac{4}{9} \\ \hline \end{array}$$

18.
$$\begin{array}{r} \frac{5}{7} \\ - \frac{3}{7} \\ \hline \end{array}$$

19.
$$\begin{array}{r} \frac{2}{5} \\ - \frac{1}{5} \\ \hline \end{array}$$

20.
$$\begin{array}{r} \frac{3}{3} \\ - \frac{1}{3} \\ \hline \end{array}$$

Total Problems 20 Problems Correct _____

A**4****1**

Thirty subtraction facts, minuend less than ten

THE MAD MINUTE

$$\begin{array}{r} 3 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -0 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -0 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ -8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ -4 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ -2 \\ \hline \end{array}$$

A**3****5***Thirty addition facts***THE MAD MINUTE**

$$\begin{array}{r} 6 \\ +6 \\ \hline \end{array}$$

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

$$\begin{array}{r} 8 \\ +8 \\ \hline \end{array}$$

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

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

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

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

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

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

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

$$\begin{array}{r} 4 \\ +8 \\ \hline \end{array}$$

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

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

$$\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +8 \\ \hline \end{array}$$

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

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

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

$$\begin{array}{r} 6 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ +8 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +6 \\ \hline \end{array}$$

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

$$\begin{array}{r} 6 \\ +9 \\ \hline \end{array}$$

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

$$\begin{array}{r} 2 \\ +8 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ +9 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +8 \\ \hline \end{array}$$

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

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