

Name: _____

SUMMER MATH PACKET

Incoming 6th grade



Hope you all enjoy the relaxing summer vacation from school. We can't let our minds relax too much! The following pages should be completed during the summer months and returned to math class on **TUESDAY, SEPTEMBER 7th**.

This is your first grade of the marking period!

Please work on this packet throughout the summer. Do NOT complete the packet tomorrow *or* wait until September 1st!

The pages should be stapled together with ALL of your work. Show your work!!

I have included a list of FREE websites for fun and to help you with the summer review work. If you have a question, I can be reached at esantini@st-ann-school.org I'll try to get back to you as soon as I can.

Don't forget to practice your math facts and exercise your brain every day!

Have a safe and happy summer!

 Miss Santini

FREE Websites for Fun & Learning

www.khanacademy.org -3rd-12th materials & resources for all subjects & levels

www.mathplayground.com -K-8th worksheets, games, facts

www.adaptedmind.com -1st-6th math worksheets & problems, instructional videos

www.coolmath4kids.com -lessons, practice, games, brain teasers

www.aplusmath.com -games, flashcards, puzzles, homework helper (includes algebra)

www.amathsdictionaryforkids.com -interactive math definitions

www.arcademicskillbuilders.com -K-6th educational games for math

www.xpmath.com -math games arcade by topic & grade level

www.mathisfun.com -1st-7th games, puzzles, practice plus algebra, geometry, & pre-calculus

www.timemonsters.com -lessons & quizzes about time, very funny (1st -H.S.)

www.carnegiestemgirls.org -site to spark & fuel girls' interest in science & math

www.mathabc.com - K-6th online math practice, online tutoring

www.algebrahelp.com -7th-11th lessons, online worksheets all about algebra

www.hoodamath.com -K-8th fun online games to practice concepts

www.PatrickJMT.com -3rd-12th loads of clear math videos

www.homeworksimplified.com -k-12th math, science, English & history

Math Fact Apps

Operation Math \$

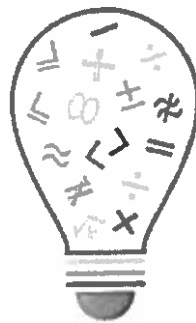
Math Heroes

Sushi Monsters

Math vs Zombies \$\$

Yodel Oh! \$

Adept Mental Math \$



Math Duel \$

Math Ninja HD

Mathtopia \$

Multiplication Game

Fraction Poker

Quiz Math

Math: Subtraction

Solve the riddle!

Solve these subtraction problems to find the number that goes with each letter. Then enter the letter in the space provided below. The words will spell out the answer to the riddle!

Riddle: What do you call it when one lemon helps out another?

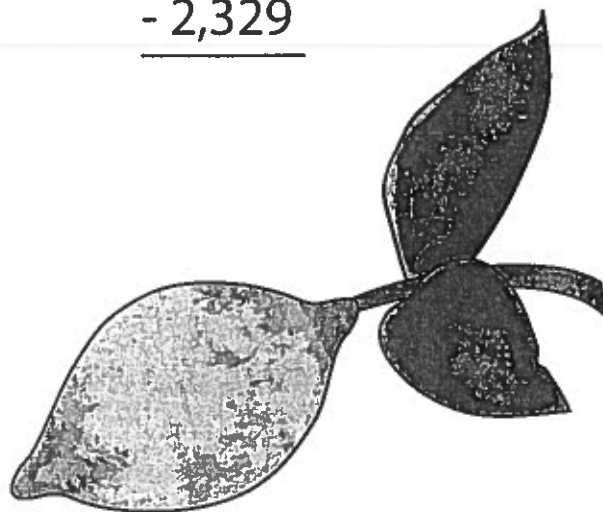
$$\begin{array}{r} \text{D. } 6,467 \\ - 4,389 \\ \hline \end{array}$$

$$\begin{array}{r} \text{E. } 1,967 \\ - 1,382 \\ \hline \end{array}$$

$$\begin{array}{r} \text{I. } 3,567 \\ - 2,329 \\ \hline \end{array}$$

$$\begin{array}{r} \text{M. } 8,999 \\ - 8,772 \\ \hline \end{array}$$

$$\begin{array}{r} \text{L. } 3,450 \\ - 2,001 \\ \hline \end{array}$$



$$\begin{array}{r} \text{A. } 4,881 \\ - 2,902 \\ \hline \end{array}$$

$$\begin{array}{r} \text{N. } 5,707 \\ - 3,925 \\ \hline \end{array}$$

$$\begin{array}{r} \text{O. } 1,982 \\ - 1,396 \\ \hline \end{array}$$

Answer:

“ 1,449



585:



227:



586:



1,782



”

—

1,979:



1,238:



2,078:



Practice 5



Solve each word problem. Show your work.

1. The carnival sold 1,542 adult passes; 4,791 senior passes; and 9,148 children's passes. How many passes were sold?

The carnival sold _____ passes.

2. There were 2,067 people waiting in line for the ferris wheel. An hour later, there were still 1,841 people waiting in line. How many people had their turn on the ferris wheel?

_____ people had their turn.

3. The popcorn man sold 5,076 tubs of popcorn. 2,291 of the tubs of popcorn did not have any butter. How many tubs of popcorn did have butter?

_____ tubs of popcorn had butter.

4. The snack bar sold 5,027 servings of cotton candy; 2,386 bags of peanuts, and 1,081 snow cones. How many snacks did the snack bar sell?

The snack bar sold _____ snacks.

5. The Hot Dog Hut sold 7,356 hot dogs. 5,861 of the hot dogs were on sticks. How many hot dogs were not on sticks?

_____ hot dogs were not on sticks.

6. At the prize booth, the people were given 4,104 stuffed bears; 8,677 stuffed bunnies; and 3,437 stuffed pigs. How many prizes were given away?

_____ prizes were given away.

Adding/Subtracting Decimals (A)

Calculate each sum or difference.

$56.7 - 3.56 =$

$54.66 + 40.9 =$

$2.61 - 1.3 =$

$9.69 + 7.02 =$

$53.4 - 7.54 =$

$32.68 + 13.9 =$

$73.8 - 3.36 =$

$34.2 + 1.48 =$

$44.84 - 44.8 =$

$67.4 + 44.9 =$

$3.94 - 3.1 =$

$49.7 + 4.3 =$

$19.47 - 8.4 =$

$48.3 + 8.6 =$

$70.2 + 9.62 =$

$45.86 - 23.67 =$

$51.18 + 3.92 =$

$4.7 - 3.5 =$

$85.4 + 3.70 =$

$27.07 - 18.22 =$

Subtracting Decimals (A)

Name: _____

Date: _____

Calculate each difference

$$\begin{array}{r} 9.66 \\ -0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 8.97 \\ -0.4 \\ \hline \end{array}$$

$$\begin{array}{r} 0.8 \\ -0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 7.7 \\ -3.71 \\ \hline \end{array}$$

$$\begin{array}{r} 9.46 \\ -0.31 \\ \hline \end{array}$$

$$\begin{array}{r} 0.7 \\ -0.27 \\ \hline \end{array}$$

$$\begin{array}{r} 2.5 \\ -0.9 \\ \hline \end{array}$$

$$\begin{array}{r} 6.43 \\ -2.16 \\ \hline \end{array}$$

$$\begin{array}{r} 0.7 \\ -0.17 \\ \hline \end{array}$$

$$\begin{array}{r} 9.28 \\ -8.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.7 \\ -0.2 \\ \hline \end{array}$$

$$\begin{array}{r} 8.93 \\ -7.73 \\ \hline \end{array}$$

$$\begin{array}{r} 0.6 \\ -0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 9.4 \\ -6.9 \\ \hline \end{array}$$

$$\begin{array}{r} 5.82 \\ -1.94 \\ \hline \end{array}$$

$$\begin{array}{r} 0.86 \\ -0.20 \\ \hline \end{array}$$

$$\begin{array}{r} 4.4 \\ -0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 7.5 \\ -2.19 \\ \hline \end{array}$$

$$\begin{array}{r} 9.50 \\ -4.9 \\ \hline \end{array}$$

$$\begin{array}{r} 4.1 \\ -0.69 \\ \hline \end{array}$$

$$\begin{array}{r} 0.9 \\ -0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 0.46 \\ -0.31 \\ \hline \end{array}$$

$$\begin{array}{r} 1.93 \\ -0.2 \\ \hline \end{array}$$

$$\begin{array}{r} 0.9 \\ -0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 2.74 \\ -1.8 \\ \hline \end{array}$$

Lesson 2.2 Multiplying 2, 3, and 4 Digits by 2 Digits

Multiply 3263 by 3.

$$\begin{array}{r} 3263 \\ \times 43 \\ \hline \end{array}$$

$$\begin{array}{r} 3263 \\ \times 3 \\ \hline 9789 \end{array}$$

Multiply 3263 by 40.

$$\begin{array}{r} 3263 \\ \times 40 \\ \hline 130520 \end{array}$$

Add.

$$\begin{array}{r} 3263 \\ \times 43 \\ \hline 9789 \\ + 130520 \\ \hline 140309 \end{array} \left. \vphantom{\begin{array}{r} 3263 \\ \times 43 \\ \hline 9789 \\ + 130520 \\ \hline 140309 \end{array}} \right\} \text{Add.}$$

Multiply.

1. **a**

$$\begin{array}{r} 28 \\ \times 24 \\ \hline \end{array}$$

b

$$\begin{array}{r} 35 \\ \times 18 \\ \hline \end{array}$$

c

$$\begin{array}{r} 26 \\ \times 33 \\ \hline \end{array}$$

d

$$\begin{array}{r} 85 \\ \times 45 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 482 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 263 \\ \times 84 \\ \hline \end{array}$$

$$\begin{array}{r} 132 \\ \times 68 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 324 \\ \times 27 \\ \hline \end{array}$$

$$\begin{array}{r} 816 \\ \times 16 \\ \hline \end{array}$$

$$\begin{array}{r} 255 \\ \times 44 \\ \hline \end{array}$$

$$\begin{array}{r} 2165 \\ \times 23 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 5150 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 7182 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 6324 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 4522 \\ \times 63 \\ \hline \end{array}$$



Mastery Checkpoint 8

Interpreting Answers to Division Problems

Solve these problems.

- 1 The Fujimoris want to pack apricots from their tree to give to their friends. Each bag can hold 10 ripe apricots. There are 45 apricots. How many full bags will there be? How many apricots will be left over? _____
- 2 If the Fujimoris decided to put 8 apricots into each bag, how many bags of apricots would there be? How many would be left over? _____
- 3 Jeremy promised to bring 38 cookies to a party. The cookies he wants to buy come in packages of 8. How many packages does he need to buy? _____
- 4 Mr. Su's class has 27 students. They are going on a field trip. Each car can carry 5 students and 1 adult. How many cars are needed for the field trip? How many extra seats will there be? _____
- 5 Jeffrey, Jacqui, and Jessica pulled all the weeds in Mrs. O'Hara's garden. She paid them \$10.20. If they want to divide the money equally, how much should they each get? _____
- 6 A stack of 10 books is 15 centimeters high. If the books are all the same thickness, how thick is each book? _____
- 7 There are 36 marbles in a bag, and 8 friends want to share them equally. How many marbles does each friend get? _____
- 8 There are 36 brownies on a plate, and 8 people will share them equally. How many brownies does each person get? _____
- 9 Eight students earned \$36.00 helping at the nursery school. They plan to share the earnings equally. How much money does each student get? _____
- 10 There are 56 pencils in the desk. They will be divided equally among 6 students. How many pencils will each student get? _____



Mastery Checkpoint 9

Short Division with Decimal Quotients

Divide. Do not use remainders, and round to the nearest hundredth.

1 $2\overline{)1.2}$

2 $3\overline{)4.5}$

3 $9\overline{)66}$

4 $8\overline{)57.68}$

5 $4\overline{)2}$

6 $7\overline{)2.17}$

7 $7\overline{)11}$

8 $7\overline{)64.4}$

9 $3\overline{)3.3}$

10 $2\overline{)6.5}$

11 $5\overline{)67.05}$

12 $4\overline{)1.8}$

13 $5\overline{)11.25}$

14 $5\overline{)10.89}$

15 $9\overline{)19.35}$

16 $3\overline{)14.25}$

Solve these problems.

- 17 Martin bought red pens for 7 friends. They will share the cost equally. If Martin spent \$11.13 for the pens, how much should each friend pay?

- 18 Bob needs 38 hamburger buns for the team cookout. Buns come in packages of 8. How many packages should Bob buy?

- 19 Marcella needs 70 flowering plants to fill a flower border. Plants are sold in packs of 6. How many packs will she need to buy?

- 20 A theater group wants to build a backdrop of wooden panels for its play. Each panel is 4 feet wide. How many panels can the group place side by side in a 35-foot space?



Mastery Checkpoint 12

Fractions of Numbers

Solve.

- | | | |
|---------------------------------|--------------------------------|---------------------------------|
| ① $\frac{1}{3}$ of 18 = _____ | ② $\frac{2}{3}$ of 18 = _____ | ③ $\frac{3}{3}$ of 18 = _____ |
| ④ $\frac{1}{2}$ of 18 = _____ | ⑤ $\frac{1}{5}$ of 20 = _____ | ⑥ $\frac{1}{5}$ of 40 = _____ |
| ⑦ $\frac{2}{5}$ of 40 = _____ | ⑧ $\frac{3}{8}$ of 32 = _____ | ⑨ $\frac{2}{5}$ of 20 = _____ |
| ⑩ $\frac{6}{8}$ of 32 = _____ | ⑪ _____ = $\frac{2}{6}$ of 60 | ⑫ _____ = $\frac{1}{6}$ of 60 |
| ⑬ _____ = $\frac{0}{6}$ of 60 | ⑭ _____ = $\frac{5}{6}$ of 60 | ⑮ _____ = $\frac{5}{6}$ of 90 |
| ⑯ _____ = $\frac{2}{3}$ of 90 | ⑰ _____ = $\frac{2}{6}$ of 15 | ⑱ _____ = $\frac{4}{10}$ of 100 |
| ⑲ _____ = $\frac{4}{8}$ of 32 | ⑳ _____ = $\frac{3}{5}$ of 150 | ㉑ _____ = $\frac{1}{4}$ of 36 |
| ㉒ _____ = $\frac{3}{10}$ of 100 | ㉓ $\frac{4}{5}$ of 25 = _____ | ㉔ _____ = $\frac{2}{3}$ of 12 |
| ㉕ $\frac{5}{6}$ of 30 = _____ | ㉖ _____ = $\frac{5}{8}$ of 72 | ㉗ $\frac{1}{2}$ of 90 = _____ |

Solve these problems.

- ⑲ Mrs. Wu brought 24 brownies to a party. Eight of them were eaten in the first 10 minutes. Twelve of them were eaten during the next 20 minutes. Four of them were eaten during the rest of the party.
- a. What fraction of the brownies was eaten in the first 10 minutes? _____
- b. What fraction of the brownies was eaten during the next 20 minutes? _____
- c. What fraction of the brownies was eaten during the rest of the party? _____
- ⑳ Jennifer asked 32 people what kind of movies they like best. Twenty-four people said they like comedies best. What fraction is that? _____
- ㉑ Which is more— $\frac{5}{8}$ of a pizza or $\frac{3}{4}$ of a pizza? _____



Mastery Checkpoint 14

Adding and Subtracting Fractions

Add or subtract.

1 $\frac{1}{3} + \frac{2}{5} =$ _____

2 $\frac{2}{3} - \frac{1}{8} =$ _____

3 $\frac{6}{7} - \frac{3}{4} =$ _____

4 $\frac{3}{4} + \frac{1}{8} =$ _____

5 $\frac{4}{5} - \frac{1}{2} =$ _____

6 $\frac{1}{2} + \frac{1}{6} =$ _____

7 $\frac{5}{8} - \frac{3}{8} =$ _____

8 $\frac{5}{8} + \frac{1}{4} =$ _____

9 $\frac{7}{10} - \frac{1}{5} =$ _____

10 $\frac{1}{6} + \frac{3}{5} =$ _____

11 $\frac{5}{6} - \frac{2}{3} =$ _____

12 $\frac{2}{3} - \frac{2}{5} =$ _____

13 $\frac{1}{3} - \frac{1}{4} =$ _____

14 $\frac{1}{3} + \frac{1}{2} =$ _____

15 $\frac{1}{3} + \frac{1}{4} =$ _____

16 $\frac{2}{7} + \frac{4}{7} =$ _____

17 $\frac{8}{9} - \frac{2}{7} =$ _____

18 $\frac{3}{5} - \frac{1}{2} =$ _____

19 $\frac{3}{4} - \frac{1}{8} =$ _____

20 $\frac{2}{3} + \frac{3}{10} =$ _____

21 $\frac{2}{7} + \frac{1}{4} =$ _____

22 $\frac{1}{6} + \frac{3}{8} =$ _____

23 $\frac{8}{9} - \frac{1}{3} =$ _____

24 $\frac{5}{6} - \frac{1}{3} =$ _____

Solve this problem.

- 25 Bill is driving from Palo Alto to Monterey and back. He started with a full tank of gasoline. He is halfway to Monterey and has $\frac{5}{8}$ of a tank left.

a. What fraction of a tank has Bill used so far?

b. How many tankfuls does a round trip take?

15

Name _____ Date _____

Mastery Checkpoint 15

Multiplying Fractions and Mixed Numbers

Change each mixed number to an improper fraction.

1 $3\frac{1}{8}$ _____

2 $4\frac{1}{5}$ _____

3 $3\frac{4}{5}$ _____

4 $4\frac{7}{8}$ _____

5 $2\frac{2}{5}$ _____

6 $3\frac{5}{8}$ _____

7 $2\frac{1}{2}$ _____

8 $1\frac{7}{8}$ _____

9 $3\frac{2}{3}$ _____

Change each improper fraction to a mixed number.

10 $\frac{8}{3}$ _____

11 $\frac{13}{6}$ _____

12 $\frac{13}{8}$ _____

13 $\frac{9}{8}$ _____

14 $\frac{14}{5}$ _____

15 $\frac{22}{7}$ _____

16 $\frac{10}{4}$ _____

17 $\frac{12}{8}$ _____

18 $\frac{17}{5}$ _____

Multiply. Check to see that your answers make sense.

19 $1\frac{1}{3} \times 2\frac{3}{4} =$ _____

20 $\frac{5}{6} \times 1\frac{2}{3} =$ _____

21 $\frac{3}{4} \times 1\frac{1}{10} =$ _____

22 $1\frac{2}{3} \times 2\frac{1}{5} =$ _____

23 $2\frac{1}{8} \times 3\frac{1}{2} =$ _____

24 $\frac{3}{5} \times 1\frac{7}{8} =$ _____

25 $1\frac{3}{4} \times 2\frac{5}{7} =$ _____

26 $1\frac{1}{5} \times \frac{5}{7} =$ _____

27 $1\frac{1}{3} \times \frac{3}{7} =$ _____

28 $\frac{5}{8} \times 3\frac{1}{5} =$ _____

29 $3\frac{1}{2} \times 1\frac{1}{6} =$ _____

30 $2\frac{1}{4} \times 1\frac{1}{5} =$ _____