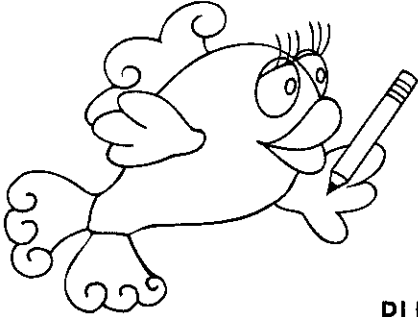


# Summer Math Practice



## for in-coming 6<sup>th</sup> graders

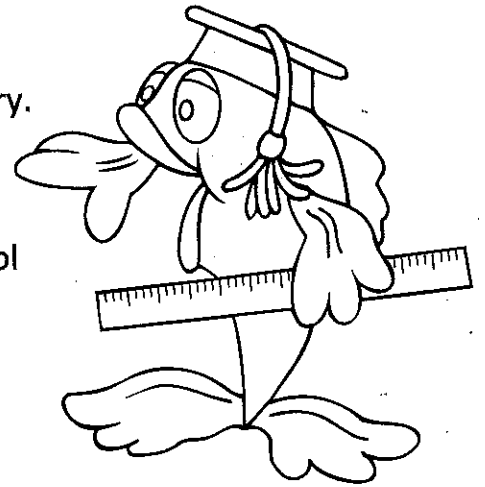
PLEASE complete all the problems in this packet.

PLEASE show any work when necessary.

Packets need to be returned to school

By September 13<sup>th</sup>

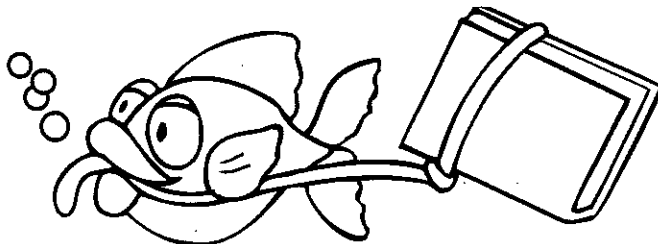
AT THE LATEST!



If you are finished before the 13<sup>th</sup>, feel free to turn it in to  
your homeroom teacher!

**THANK YOU!**

Name: \_\_\_\_\_



## Number Sense and Numeration

77. What means the same as 5,507?

- a.  $5,000 + 500 + 70$
- b.  $5,000 + 500 + 7$
- c.  $5,000 + 50 + 7$
- d.  $5,000 + 500 + 50 + 7$

79. What means the same as 75,000?

- a. 75 hundreds
- b. 75 tens
- c. 75 thousands
- d. 75 ones

78. What means the same as 2,400?

- a. 24 tens
- b. 24 thousands
- c. 24 hundreds
- d. 240 hundreds

80. In which number does 5 have the greatest value?

- a. 3,025
- b. 4,576
- c. 5,002
- d. 2,058

## Number Sense and Numeration

81. What means the same as  
 $.009 + 10.18 + 5.03$ ?

- a. 15.219
- b. 15.029
- c. 12.529
- d. 15.1919

83. Write the following in scientific notation:

10,000

82. What means the same as  
 $.7 + 10 + .06$ ?

- a. 11.30
- b. 10.076
- c. 10.76
- d. 17.06

84. Write  $10^3$  as a real number.

## Estimation

The chart shown below lists Major League Baseball's top five all-time leaders in hits.

Player	# of Hits
Pete Rose	4,256
Ty Cobb	4,189
Hank Aaron	3,771
Stan Musial	3,630
Tris Speaker	3,514

120. Rounded to the nearest thousand, how many hits do these players have altogether?

- a. 17,000
- b. 23,000
- c. 19,000
- d. 15,000

121. Cindy wants to estimate the difference between 7,689 miles and 1,897 miles. Which of the following would be BEST for Cindy to use to make that estimate?

- a.  $8,000 - 2,000$
- b.  $7,000 - 2,000$
- c.  $7,000 - 3,000$
- d.  $8,000 - 3,000$

122. Harold wants to add 5,123 to 24,868. Which of the following would be BEST for Harold to use to ESTIMATE the sum?

- a.  $6,000 + 25,000$
- b.  $7,000 + 24,000$
- c.  $5,000 + 25,000$
- d.  $5,000 + 24,000$

## Estimation

The all-time Major League Baseball leaders in strikeouts through the end of the 2002 baseball season are shown in the chart below.

Player	Strikeouts
Nolan Ryan	5,714
Steve Carlton	4,136
Roger Clemens	3,909
Randy Johnson	3,746

Round each player's strikeout total to the nearest hundred.

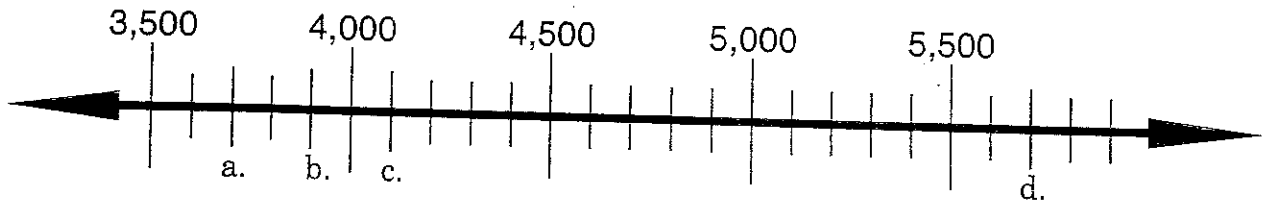
123. Nolan Ryan: \_\_\_\_\_

124. Steve Carlton: \_\_\_\_\_

125. Roger Clemens: \_\_\_\_\_

126. Randy Johnson: \_\_\_\_\_

Match each player's strikeout total to the corresponding positions on the number line shown below.



127. Steve Carlton: \_\_\_\_\_

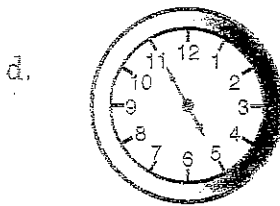
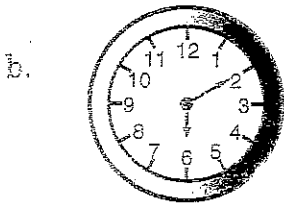
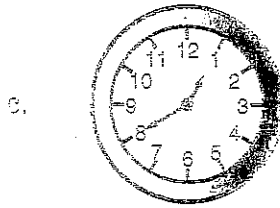
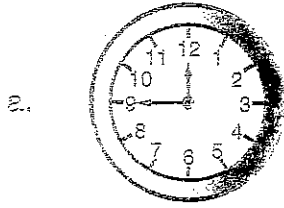
128. Roger Clemens: \_\_\_\_\_

129. Randy Johnson: \_\_\_\_\_

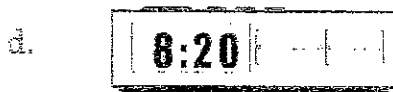
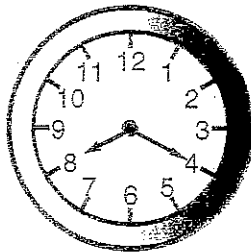
130. Nolan Ryan: \_\_\_\_\_

# Measurement

338. Which clock below shows the time 6:10?

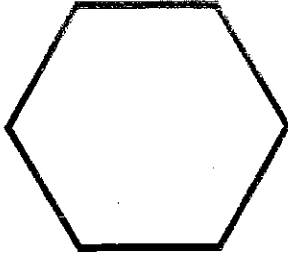


339. Which digital clock shows the same time as the standard clock shown below?



## Measurement

330. The combined length of 2 sides of this equilateral figure is 5 inches. What is the perimeter of this figure?



- a. 30 inches  
b. 25 inches  
c. 15 inches  
d. 10 inches
331. Luisa's math class begins at 9:25 a.m and ends at 10:20 a.m. How long is her math class?
- a. 55 minutes  
b. 40 minutes  
c. 1 hour 5 minutes  
d. 1 hour 45 minutes
332. During the month of June, Rebekah ran each day for 30 minutes. How many hours did she run in the month of June?
- a. 15 hours  
b. 17 hours  
c. 20 hours  
d. 30 hours
333. Dave practiced the trombone 45 minutes a day for three days in a row. How much time did he spend practicing altogether?
- a. 15 minutes  
b. 45 minutes  
c. 1 hour 55 minutes  
d. 2 hours 15 minutes

## Fractions, Decimals and Percents

176. Which decimal number is equivalent to  $1\frac{3}{4}$ ?

- a. .34
- b. 1.34
- c. 1.5
- d. 1.75

177. Which improper fraction is equivalent to 9.125?

- a.  $\frac{37}{4}$
- b.  $\frac{19}{2}$
- c.  $\frac{73}{8}$
- d.  $\frac{9}{8}$

178. Shania is in fifth grade. She and her mother attended the Saturday afternoon movie. Ticket prices were \$4.00 for children and \$7.50 for adults. While at the movie, they bought 2 sodas at \$1.75 each and a popcorn at \$4.25. Prices at the movie theater include tax. What is the total amount of money spent at the movie?

- a. \$19.25
- b. \$18.50
- c. \$16.75
- d. \$15.25

179. Chris's fish tank has 12 fish. He has 8 goldfish and 4 guppies. What fraction of the fish are guppies? Draw and label a picture that shows what fraction of the fish are guppies. Explain why your answer is correct.



## Fractions, Decimals and Percents

168. Lisa's monthly telephone bill was \$50.00. Out of the total bill, 50% was for local calls, and the rest was for long distance. If long distance calls were an average of \$1.25 each, how many long distance calls were there?

- a. 14
- b. 16
- c. 20
- d. 22

Match each term to the examples shown below. Each term will be used only once.

- a. whole number
- b. improper fraction
- c. mixed number
- d. decimal number

170. \_\_\_\_\_  $4 \frac{5}{8}$

171. \_\_\_\_\_  $\frac{35}{6}$

172. \_\_\_\_\_ 307

173. \_\_\_\_\_ 217.369

169. The approximate costs of running an automobile in 1995 are shown in the chart below:

Item	Amount
Gas & Oil	\$750.00
Other	\$2,250.00
<b>Total Cost</b>	<b>\$3,000.00</b>

What fraction would represent the ratio of the cost of gas and oil to the total cost of running a car in 1996?

- a.  $\frac{1}{5}$
- b.  $\frac{1}{4}$
- c.  $\frac{3}{8}$
- d.  $\frac{1}{3}$

174. Express  $\frac{1}{5}$  as a percent.

175. Express  $\frac{1}{5}$  in decimal form.

## Statistics and Probability

The stem and leaf plot below shows the heights of the students in Jeremy's fifth-grade class.

Height in Inches	
3	4 5 5 6 7 7
4	5 5 7 8 9 9
5	0 1 2 7
6	0 0 1 1 4 5

417. How many students are over four feet tall?

- a. 15
- b. 10
- c. 12
- d. 8

Russ owns a shop that repairs and sells computers. The table below shows the average number of customers that come into his shop each day that he is open.

Day	Customers
Monday	38
Tuesday	59
Wednesday	41
Thursday	35
Friday	17

418. Russ needs to close his shop early one day next week. Based on the data shown in the table, which day would be best for Russ to close early?

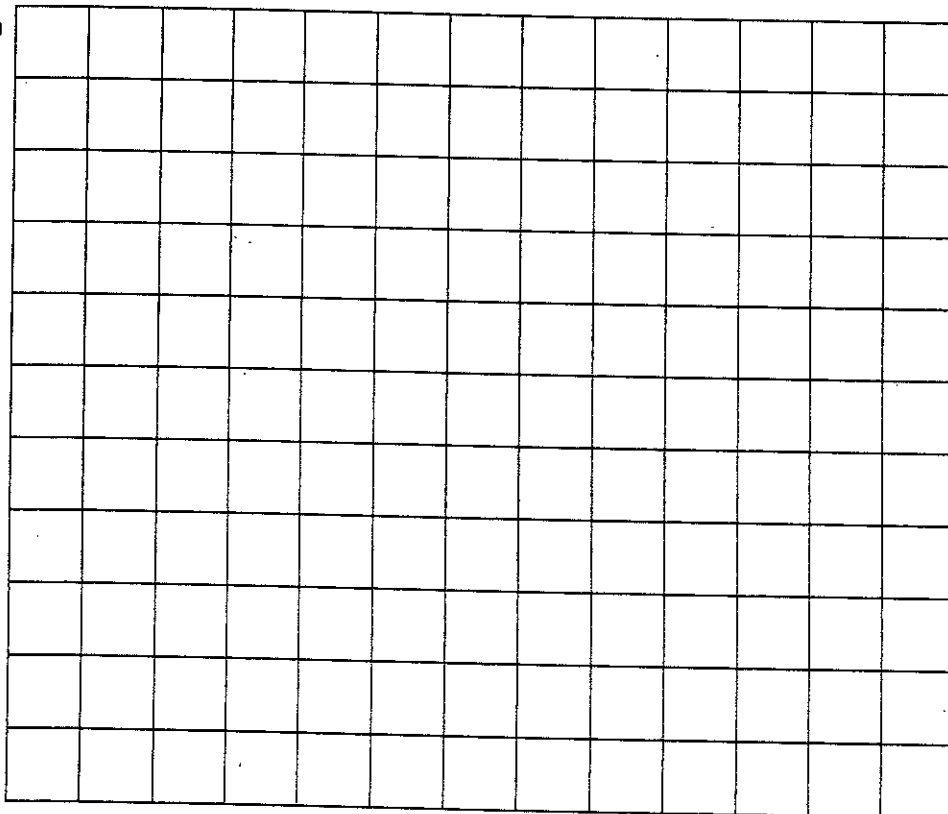
- a. Monday
- b. Wednesday
- c. Friday
- d. Tuesday

## Statistics and Probability

Nicole went with her class on a field trip to a farm. During the last hour of the field trip, Nicole listed the types of animals along with how many of each animal she had seen. Nicole's results are shown in the chart below.

Type of Animal	Number Seen
Cow	11
Horse	6
Dog	3
Chicken	18
Pig	12

416. Using the information from the chart, make a bar graph on the grid below to show all of the animals that Nicole saw. Make sure that you title your graph, label each axis, graph all of the data, and use an appropriate scale.



## Fractions, Decimals and Percents

314. After the 1968 season, Major League Baseball expanded from twenty teams to twenty-four teams. How much larger did Major League Baseball get as a result of this expansion?
- 10% larger
  - 20% larger
  - 25% larger
  - 50% larger
315. Since 1970, Major League Baseball has added six additional teams. As a result of adding these six teams, the number of teams in Major League Baseball has \_\_\_\_\_ since 1970.
- increased 25%
  - increased 30%
  - increased 15%
  - increased 40%
316. In 1899, Major League Baseball's National League contracted from twelve teams to eight teams. This contraction represents what percentage decrease in the number of teams?
- 50%
  - 20%
  - $33\frac{1}{3}\%$
  - none of the above
317. If there are 40 fifth-graders and 15% of them are absent, then how many students are absent?
- 24
  - 20
  - 15
  - 6
318. Fifteen is 50% of what number?
- 7.5
  - 60
  - 30
  - 25

## Fractions, Decimals and Percents

Simplify the following fractions.

274.  $\frac{8}{18} =$

275.  $\frac{9}{30} =$

276.  $\frac{75}{100} =$

277.  $\frac{10}{2} =$

278.  $\frac{27}{81} =$

279.  $\frac{6}{120} =$

280.  $\frac{13}{26} =$

281.  $\frac{8}{64} =$

282.  $\frac{12}{40} =$

283.  $\frac{55}{55} =$

Change the following fractions to mixed numbers.

284.  $\frac{27}{5} =$

285.  $\frac{37}{10} =$

286.  $\frac{18}{4} =$

287.  $\frac{31}{7} =$

288.  $\frac{145}{8} =$

289.  $\frac{204}{7} =$

290.  $\frac{75}{6} =$

291.  $\frac{141}{16} =$

292.  $\frac{84}{9} =$

293.  $\frac{35}{11} =$