

4th Grade Summer Math Packet



Name: _____

4th grade teacher: _____

Excellent websites for fun learning and reinforcement of math skills:

www.wildmath.com Select "Play the game". Select addition, subtraction or multiplication and grade. You can race to beat your time.

www.harcourtschool.com Click the red box, select math, select HSPMath, select Michigan, click on the "3" ball or "4" ball for a challenge. Select a game.

www.aplusmath.com Go under "Flashcards" or "Game Room" on the left side of the screen. They can practice adding, subtracting and multiplying. Very important to know the addition, subtraction and multiplication facts from memorization or within a couple seconds.

www.mathisfun.com Select numbers then Math Trainer for adding, subtracting and multiplication. Or at the home screen select games and pick a game to play.

www.eduplace.com Select your state – "Michigan" press submit. Select the student tab then click on the "mathematics" rectangle. Click in the center book "Houghton Mifflin Math 2007", Click on "Grade 3. Select any games. Extra Help and Extra Practice is good, also eGames.

www.illuminations.netm.org Select activities then select grade level. Click on Search.

www.aaamath.com At the top pick "Third" or "Fourth" for a challenge. Choose any of the activities like multiplication then select "play" option toward the top of the screen. 20 Questions and Countdown games are good ones.

www.funbrain.com Lots of fun games to choose from.

Other games and activities you can play:

- Take a deck of cards and remove the face cards (kings, queens, jacks). Aces are one. Divide the cards evenly among 2 players. Each player flips over a card. The first one to add the 2 numbers correctly wins the cards. After going through the pile of cards, the player with the most cards wins. You can do a multiplication version also.

TERMS

Sum: the answer to an addition problem.

Difference: the answer to a subtraction problem.

Product: answer to a multiplication problem.

Quotient: answer to a division problem.


Edges: This is all the straight lines of a figure. Like the edge of a desk, where 2 faces come together.

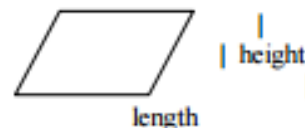
Faces: This is the flat surface of a figure.

Vertex: This is all the corners of a figure. The point where 3 or more edges come together.

Perimeter: You add up all the sides. (You are adding all lengths of the outer edges together.)

Area: Area of a square or rectangle = length (l) x width (w) answer is written in "square inches" (or whatever the measurement is)

Area of a parallelogram  is length x height.
Answer written in "square inches" (or whatever measurement)



Write the products: Practice any you do not know quickly.

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 0 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ \times 7 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 6 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$$

Mrs. Count was born in the year one thousand, nine hundred forty-two. In what year was she born?

- A. 1429
- B. 1492
- C. 1924
- D. 1942

Which correctly completes the number sentences? $53,277 < \underline{\hspace{2cm}}$

- A. 49,999
- B. 50,400
- C. 52,388
- D. 61,003

Which number is fifty-two thousand, three hundred nine?

- A. 5,239
- B. 52,039
- C. 52,309
- D. 52,390

What is the digit in the ten-thousands place of the number 68,173?

- A. 1
- B. 6
- C. 8

The lunchroom serves only hamburgers and pizza on Mondays. Last Monday, 314 students bought a lunch. There were 97 students who bought hamburgers. Which of the following is *closest* to the number of students who bought pizza?

- A. 100 students
- B. 200 students
- C. 300 students
- D. 400 students

The best estimate of the sum of 389 and 403 is:

- A. 600
- B. 700
- C. 800
- D. 900

Which division statement is related to 6×4 ?

- A. 24 divided by 4
- B. 64 divided by 4
- C. 10 divided by 6
- D. 24 divided by 3

The division 354 divided by 6 can be used to solve which of the following problems?

- A. How many school children there will be if 6 new students enroll at a school with 354 students?
- B. How many school children will there be in a school if 6 students move away from a school with 354 students?
- C. How many tables for 6 are needed to sit 354 people?
- D. How many celery plants are planted in 6 rows if each row has 354 plants?

What is the place value of the 8 in the number 5,280?

- A. ones
- B. tens
- C. hundreds
- D. thousands

Which number is equal to 5,912?

- A. 5 hundreds, 9 tens, and 12 ones
- B. 5 thousands, 91 hundreds, and 12 ones
- C. 5 thousands, 9 hundreds, and 12 ones
- D. 5 thousands, 9 hundreds, 1 ten, and 2 ones

The number 9,036 is equal to which of the following?

- A. $900 + 30 + 6$
- B. $90 + 30 + 6$
- C. $9000 + 30 + 6$

Which number means 7 thousands, 4 tens and 5 ones?

- A. 745
- B. 7,045
- C. 7,450

Which number goes in the blank to make the statement below true?

$$5,642 < \underline{\hspace{2cm}} < 6,633$$

- A. 6,931
- B. 5,610
- C. 6,745
- D. 5,841

When counting by 6's, which of the following patterns is correct?

- A. 0, 6, 12, 16, 22, 28, 34
- B. 0, 6, 12, 18, 25, 31, 37
- C. 0, 6, 12, 18, 24, 30, 36

What number comes next in this pattern 41, 43, 45, 47, _____?

- A. 48
- B. 49
- C. 50

Which number can be shared in two equal groups with no remainder?

- A. 85
- B. 490
- C. 223

Martina has a new box of 64 crayons. She drops the box and 17 crayons are broken. How many crayons are **NOT** broken?

- A. 47 crayons
- B. 57 crayons
- C. 53 crayons
- D. 81 crayons

There are 36 pieces of gum in a bag. Mom empties the bag by giving 6 pieces to each of her children. How many children does she have?

- A. $36 \text{ divided by } 6 = 6 \text{ children}$
- B. $36 + 6 = 42 \text{ children}$
- C. $36 \text{ divided by } 9 = 4 \text{ children}$
- D. $36 - 30 = 6 \text{ children}$

A classroom has 5 rows of desks with 5 desks in each row. Which number sentence shows how to figure this out?

- A. $5 + 5 = 10 \text{ desks}$
- B. $5 \times 5 = 25 \text{ desks}$
- C. $2 \times 5 = 10 \text{ desks}$
- D. $5 \text{ divided by } 5 = 25 \text{ desks}$

Which of the following is a true statement?

- A. $8 \times 2 = 4 \times 4$
- B. $1 \times 1 = 1 + 1$
- C. $10 \times 3 = 10 + 10$
- D. $6 \times 6 = 5 \times 5 + 1$

There are 8 socks in Vic's drawer. How many pairs are there?

- A. 2
- B. 3
- C. 4
- D. 16

Which of the following is true?

- A. $6 \times 3 = 4 \times 4$
- B. $20 - 5 = 19 - 3$
- C. $9 + 8 = 10 + 7$
- D. $2 \times 3 = 2 + 3$

Which multiplication fact can be used to find the answer to $56 \div 7$?

- A. 7×5
- B. 7×8
- C. 56×7

Susie wants to share 30 candies among 6 friends. How many candies will each friend get?

- A. 8
- B. 7
- C. 6
- D. 5

What is the missing number in the problem 54 divided by _____ $= 6$?

- A. 7
- B. 8
- C. 9

What is the missing number in the problem $7 \times \underline{\quad} = 56$

- A. 7
- B. 8
- C. 9

Solve this problem in your head: $500 \times 6 =$

- A. 300
- B. 530
- C. 3000

John had exactly 32 pennies. He sorted the pennies into stacks of 5 pennies each. How many pennies were left over?

- A. 37
- B. 6
- C. 2
- D. 0

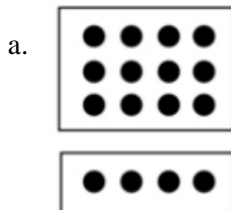
27 students want to join teams for relay races. Each team must have 4 students. How many complete teams can be made? Would any students be left out, if any?

- A. 5 complete teams with 2 students left out
- B. 6 complete teams with 3 students left out
- C. 7 complete teams with 0 students left out

May has 10 eggs that she can use to make cookies for the bake sale. Each cookie recipe calls for 3 eggs. How many full recipes can she make and how many eggs will be left over, if any?

- A. 2 full recipes with 4 eggs left over
- B. 3 full recipes with no eggs left over
- C. 3 full recipes with 1 egg left over

Which picture represents the equation $12 \div 3 = 4$?



What fraction is shown by this strip?



- A. $\frac{3}{4}$ B. $\frac{3}{6}$ C. $\frac{3}{7}$

Which of these two fractions are equivalent? Draw fraction strips to help you figure this out.

$$\frac{1}{2} \quad \frac{2}{4} \quad \frac{3}{8}$$

$\frac{1}{2}$

$\frac{2}{4}$

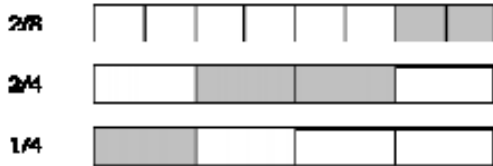
$\frac{3}{8}$

- A. $\frac{1}{2} = \frac{2}{4}$ B. $\frac{1}{2} = \frac{3}{8}$ C. $\frac{2}{4} = \frac{3}{8}$

Since $4 \times 10 = 40$, and $40 \times 5 = 200$, then which of the following is true?

- A. $14 \times 45 = 200$
B. $4 \times 10 \times 40 = 200$
C. $4 \times 10 \times 5 = 200$
D. $40 \times 10 \times 5 = 200$

Which two of these fractions are equivalent?



- A. $\frac{2}{8} = \frac{2}{4}$ B. $\frac{2}{8} = \frac{1}{4}$ C. $\frac{2}{4} = \frac{1}{4}$

Which set shows fractions ordered from least to greatest? Draw a picture.

A. $\frac{1}{4}, \frac{1}{2}, \frac{6}{8}$

B. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$

C. $\frac{1}{2}, \frac{2}{4}, \frac{3}{8}$

Which group of fractions is in order from least to greatest? Draw a picture.

A. $\frac{2}{2}, \frac{3}{8}, \frac{3}{4}$

B. $\frac{2}{2}, \frac{3}{4}, \frac{3}{8}$

C. $\frac{3}{4}, \frac{3}{8}, \frac{2}{2}$

D. $\frac{3}{8}, \frac{3}{4}, \frac{2}{2}$

Which set shows fractions ordered from least to greatest? Draw a picture.

A. $\frac{1}{4}, \frac{1}{2}, \frac{6}{8}$

B. $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$

C. $\frac{1}{2}, \frac{2}{4}, \frac{3}{8}$

Insert <, >, or = in the following blank lines. Draw a picture to help you.

A. $\frac{1}{5}$ _____ $\frac{1}{9}$

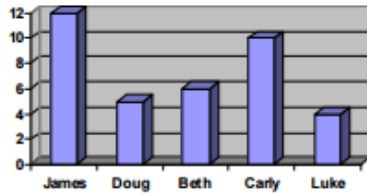
B. $\frac{1}{6}$ _____ $\frac{1}{3}$

C. $\frac{4}{5}$ _____ $\frac{2}{5}$

D. $\frac{1}{2}$ _____ $\frac{2}{4}$

E. $\frac{2}{6}$ _____ $\frac{4}{6}$

The graph below shows the number of pet fish owned by 5 friends.
Pet Fish Owned



What was the minimum number of fish owned by one friend?

- A. 12
- B. 10
- C. 4
- D. 2

What was the maximum number of fish owned by one friend?

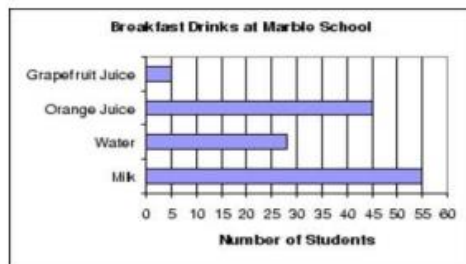
- A. 12
- B. 10
- C. 4
- D. 2

This chart shows how many points were scored by members of a basketball team. How many players scored 10 or more points?



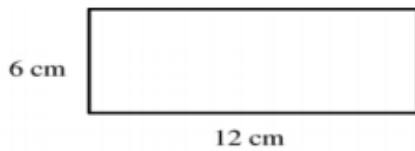
- A. 1
- B. 2
- C. 3
- D. 4

133 fourth grade students were asked what they drink with breakfast in the morning. Here is a bar graph of their responses.



What is the range of this data?

- A. 28
- B. 50
- C. 55
- D. 60



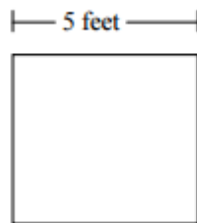
What is the perimeter of the above rectangle?

- A. 18 cm
- B. 30 cm
- C. 36 cm

What is the area of the above rectangle?

- A. 36 square cm
- B. 72 square cm
- C. 36 square cm
- D. 18 cm

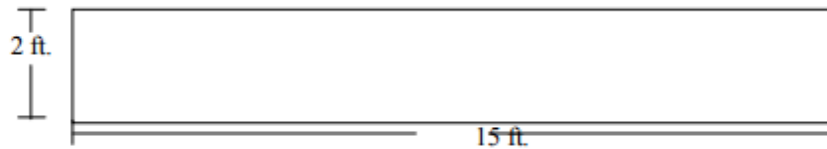
Brent planted vegetables in the square garden pictured below.



What is the area of the garden? (Area = length x width)

- A. 10 square feet
- B. 20 square feet
- C. 25 square feet
- D. 55 square feet

What is the perimeter of the shape pictured below?



- A. 17 ft.
- B. 19 ft.
- C. 30 ft.
- D. 34 ft.

Solve each of these without using a calculator:

$4 \times 6 = \underline{\quad}$

$8 \times 8 = \underline{\quad}$

$2 \times 7 = \underline{\quad}$

$2 \times 9 = \underline{\quad}$

$5 \times 5 = \underline{\quad}$

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

$8 \times 5 = \underline{\quad}$

$2 \times 2 = \underline{\quad}$

$3 \times 4 = \underline{\quad}$

$32 \div 4 = \underline{\quad}$

$7 \times 7 = \underline{\quad}$

$56 \div 7 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$18 \div 2 = \underline{\quad}$

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

$45 \div 9 = \underline{\quad}$

$4 \times 4 = \underline{\quad}$

$8 \times 7 = \underline{\quad}$

$24 \div 3 = \underline{\quad}$

$3 \times 3 = \underline{\quad}$

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

$4 \times 6 = \underline{\quad}$

$6 \times 6 = \underline{\quad}$

$1 \times 9 = \underline{\quad}$

What is 500×8 ? Explain how you figured this out, without using a calculator.

$81 \div 9 = \underline{\quad}$

$48 \div 6 = \underline{\quad}$

$18 \div 6 = \underline{\quad}$

$42 \div 7 = \underline{\quad}$

$10 \div 2 = \underline{\quad}$

$54 \div 6 = \underline{\quad}$

$36 \div 9 = \underline{\quad}$

$45 \div 5 = \underline{\quad}$

$72 \div 8 = \underline{\quad}$

$8 \div 2 = \underline{\quad}$

$72 \div 9 = \underline{\quad}$

$6 \div 1 = \underline{\quad}$

$25 \div 5 = \underline{\quad}$

$5 \div 5 = \underline{\quad}$

$18 \div 2 = \underline{\quad}$

$30 \div 5 = \underline{\quad}$

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

$4 \div 1 = \underline{\quad}$

$48 \div 8 = \underline{\quad}$

$7 \div 7 = \underline{\quad}$