

Multiplication: Estimation

Name _____

Date _____

Tic-tac-toe

This Tic-tac-toe game gives you all the answers you need to win. All you have to do is find the row, column, or diagonal that is the winner.

Here's how: Look at the problems on the game board. To find the answers, round each 3-digit number to the nearest ten and each 4-digit number to the nearest hundred, and then multiply. You don't need to round 1-digit numbers. See if your answer matches one in the answer box. If it does, write the answer on the line under the problem. When you find a row, column, or diagonal of answers, draw a circle around the problems.

| | | |
|--|--|--|
| $\begin{array}{r} 504 \\ \times 5 \\ \hline \end{array}$ | $\begin{array}{r} 385 \\ \times 3 \\ \hline \end{array}$ | $\begin{array}{r} 714 \\ \times 8 \\ \hline \end{array}$ |
| $\begin{array}{r} 689 \\ \times 2 \\ \hline \end{array}$ | $\begin{array}{r} 209 \\ \times 6 \\ \hline \end{array}$ | $\begin{array}{r} 1,742 \\ \times 2 \\ \hline \end{array}$ |
| $\begin{array}{r} 1,119 \\ \times 7 \\ \hline \end{array}$ | $\begin{array}{r} 2,894 \\ \times 4 \\ \hline \end{array}$ | $\begin{array}{r} 3,046 \\ \times 5 \\ \hline \end{array}$ |

ANSWER BOX

5,680

116,000

3,500

1,260

2,400

1,390

7,710

1,180

7,700

Congratulations! You've won the game.

Tic-Tac-Toe. He likes to find his way across.
What is the crossing guard's favorite game?

PALINDROME WORD FIND

Palindromes are words, phrases, sentences, or numbers that read the same forwards and backwards. Two examples are *121* and *Anna*. See how many palindromes you can find in this puzzle. (There are 32 words in all.)

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | J | B | L | A | D | B | B | U | O | F | M | B | E | W | E | Z | C |
| L | O | P | E | A | C | O | I | D | L | N | U | N | T | R | H | N | H |
| E | C | O | E | C | B | Q | O | B | J | T | M | M | O | E | A | B | T |
| V | T | M | Y | E | P | D | K | P | K | N | L | T | A | O | N | P | B |
| E | O | O | L | Z | P | M | H | E | V | E | I | Q | D | D | N | E | A |
| L | O | W | T | U | X | N | A | T | S | Q | M | T | H | I | A | E | T |
| A | T | J | P | S | R | N | U | Y | Z | K | A | R | S | T | H | M | X |
| N | A | D | D | B | D | R | R | Z | P | L | J | O | O | U | Q | O | J |
| J | Z | S | O | Z | I | A | T | K | W | O | H | A | L | T | R | X | O |
| D | E | E | D | M | G | D | A | B | S | S | P | W | O | C | O | L | T |
| B | Y | A | O | A | M | A | G | K | V | A | L | P | S | I | K | R | T |
| T | E | R | A | N | S | R | G | W | D | G | Z | F | R | V | G | V | O |
| E | A | R | K | N | L | S | L | O | I | A | L | U | P | I | K | M | O |
| R | E | P | A | P | E | R | U | W | D | S | N | I | O | C | M | O | T |
| R | K | H | Y | S | X | P | S | N | J | E | O | N | T | E | R | M | G |
| E | O | K | A | F | O | I | U | D | U | D | M | B | A | C | E | B | I |
| T | H | A | K | D | J | M | N | X | R | G | H | E | W | C | A | B | T |
| S | E | E | S | U | N | X | W | O | A | L | S | K | A | G | Z | P | O |


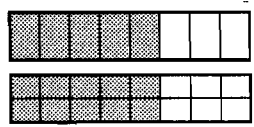

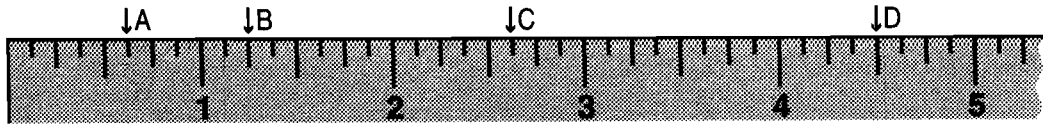
TEACHERS' MEETING

Recently, teachers from all over the United States met together in Chicago for a national meeting. Four of the teachers decided to continue the day's discussion over dinner. From the clues below, determine the subject taught by each teacher, what state each teacher is from, and what type of food each teacher ordered.

1. Illinois is the home of the math teacher.
2. Mrs. Jackson teaches geography but doesn't live in Nevada.
3. The English teacher comes from Wisconsin and loves Italian.
4. Mrs. Jackson did not order Chinese or Italian.
5. Ms. Snow lives in Illinois but doesn't teach English and didn't order Italian.
6. Mr. Hunter loves Mexican food but isn't from Wisconsin.

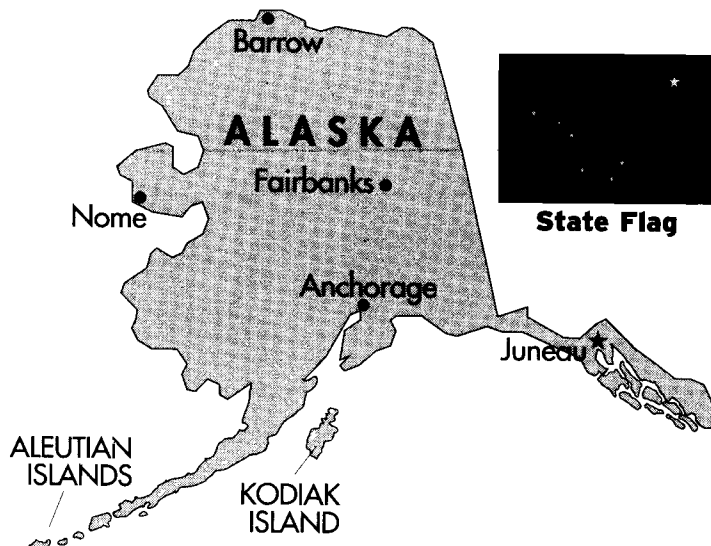
| | Ms. Snow | Mr. Hunter | Mr. Wong | Mrs. Jackson |
|------------|----------|------------|----------|--------------|
| Wisconsin | | | | |
| Nevada | | | | |
| California | | | | |
| Illinois | | | | |
| Geography | | | | |
| Math | | | | |
| English | | | | |
| Science | | | | |
| Italian | | | | |
| Chinese | | | | |
| American | | | | |
| Mexican | | | | |

Name _____ Score _____

| | | | |
|---|---|---|---|
| <p>1 Basic Facts</p> | $3 + 3 =$ $10 - 5 =$ $2 \times 6 =$ $2 \times 3 =$ $10 \div 2 =$ $4 + 3 =$ $10 - 4 =$ $3 \times 2 =$ $9 \times 9 =$ $8 \div 4 =$ $4 + 6 =$ $15 - 7 =$ $8 \times 8 =$ $3 \times 0 =$ $9 \div 1 =$ | | |
| <p>2 Algorithms</p> | $46,854$ $\$40.85$ 23 $8 \overline{)58}$ $3 \text{ gal } 2 \text{ qts}$ $+ 2,508$ $- 5.99$ $\times 3$ $+ 6 \text{ gal } 3 \text{ qts}$ | | |
| <p>3 Estimating Rounding</p> | <p>Round to the nearest hundred dollars.</p> $\$895 \approx$ _____ $\$96.99 \approx$ _____ $\$18.19 \approx$ _____ $\$159 \approx$ _____ $\$264.58 \approx$ _____ | | |
| <p>4 Story Problems</p> | <p>The Jets play 16 football games this season. So far they have 3 wins and 4 losses. If they can win all the rest, how many wins and losses will they have for the season?</p>  | | |
| <p>5 Equivalent Fractions</p> |  <p>_____ = _____</p> <p>Multiply numerator and denominator by 2 to get an equivalent fraction.</p> $\frac{2}{5} =$ | | |
| <p>6 Vocabulary Concepts Facts</p> | <table border="1"> <tr> <td data-bbox="389 1018 560 1207"> <p>Know and Spell month - year addition division pound - ounce ton product - sum</p> </td> <td data-bbox="576 1018 1437 1207"> <p>A. In $\frac{3}{4}$ the numerator is _____. (3, 4, 7, 12) B. In $6 \times 7 = 42$, six and seven are factors. 42 is the _____. C. There are 7 days in a week and 52 weeks in a _____. D. Subtraction is the opposite, or inverse, of _____. E. The abbreviation for _____ is lb; for _____ is t.</p> </td> </tr> </table> | <p>Know and Spell month - year addition division pound - ounce ton product - sum</p> | <p>A. In $\frac{3}{4}$ the numerator is _____. (3, 4, 7, 12) B. In $6 \times 7 = 42$, six and seven are factors. 42 is the _____. C. There are 7 days in a week and 52 weeks in a _____. D. Subtraction is the opposite, or inverse, of _____. E. The abbreviation for _____ is lb; for _____ is t.</p> |
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| <p>7 Fractional Parts</p> | $\frac{1}{5}$ of 20 $\frac{1}{5}$ of 35 $\frac{1}{5}$ of 25 $\frac{1}{5}$ of 10 $\frac{1}{5}$ of 500 | | |
| <p>8 Place Value Numeration</p> | <p>A. What is one more than 9,999? _____ B. Write four thousand, six hundred nine. _____ C. Complete this. $50,873 =$ _____ + _____ + _____ + _____ D. Circle the greatest amount. 49,000 40,900 94,000 E. Write the smallest 3-digit number without a zero. _____</p> | | |
| <p>9 Other Important Topics</p> |  <p>A. This is a dime. It is worth _____ cents. B. It takes _____ dimes to make a dollar. C. A dime is 15¢ less than a _____. D. What is the value of 6 dimes? _____ E. If you get half of 10 dimes, you get _____ cents.</p> | | |
| <p>10 Rulers</p> | <p>A is at _____. B is at _____. C is at _____. D is at _____. Put E at $5\frac{1}{4}$.</p>  | | |

ALASKA (AK)

Last Frontier



Fast Facts

State Capital: Juneau
Population: 626,932 (Census 2000)
Land Area: 571,951 square miles
Year Admitted to the Union: 1959

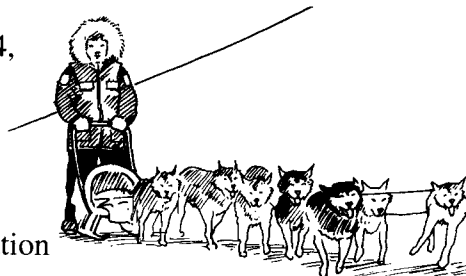


When you think of Alaska, think BIG! Alaska is our country's largest state by area. And yet it has one of the smallest populations—most likely due to its remoteness (it's right across the Bering Strait from Russia) and freezing climate. Who would have thought when the territory was purchased from Russia in 1867 (for only two cents an acre) that Alaska would later become a much sought-after vacation destination?

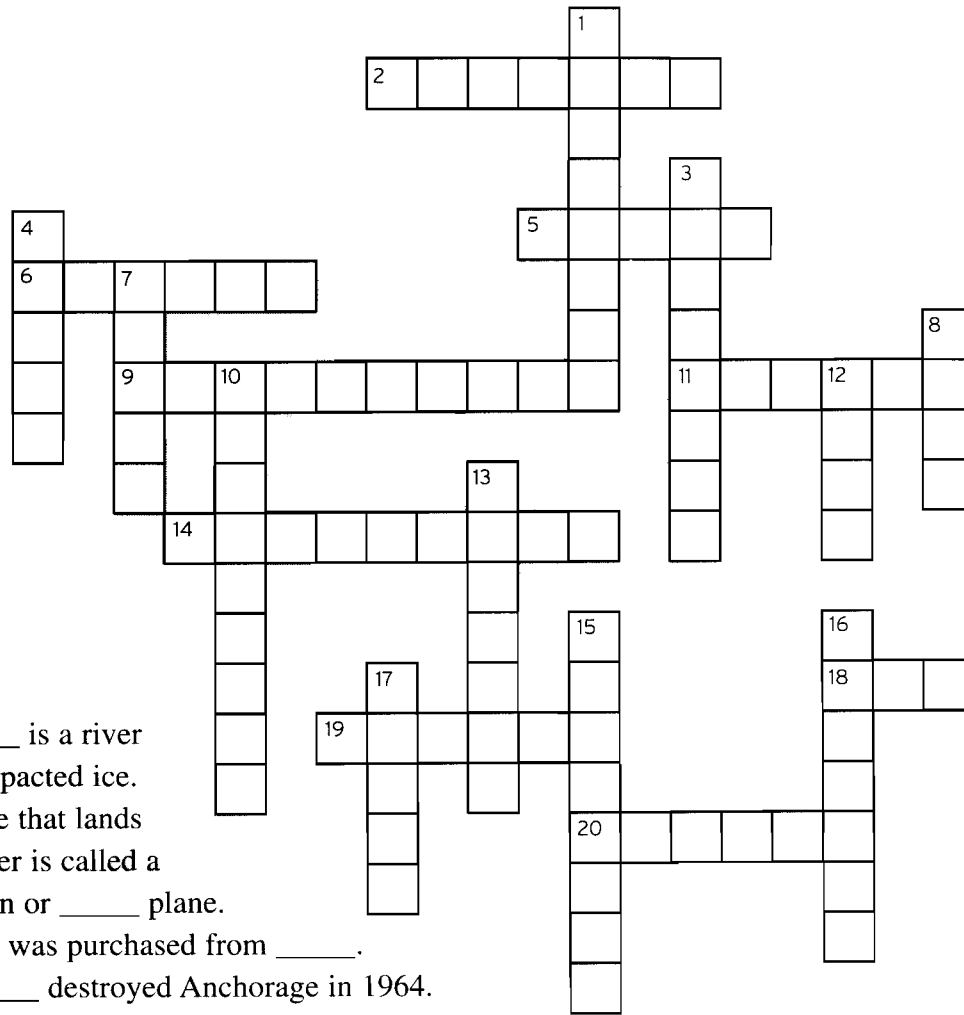
Pristine (untouched) forests and spectacular waterfalls abound in this state. *Glaciers*—rivers of compacted ice—creak along Alaska's waterways. Alaska boasts many natural resources, including minerals, timber, and petroleum. (The 800-mile Trans-Alaska pipeline transports oil to the lower 48 states.) Magnificent parks, like Denali, Wrangell, and Katmai, are home to numerous animals, including polar and grizzly bears, wolves, bald eagles, *orcas* (killer whales), puffins, and reindeer. At the Denali National Park, climbers scale tall mountains, including North America's highest peak—20,320-foot Mount McKinley. The best time to enjoy these sights is during the summer, when the sun shines continuously all day and all night. When it gets dark, you can see the *aurora borealis* (northern lights)—a colorful "curtain" of light that streams through the sky.

Nature has also brought destruction to Alaska. In 1964, one of the largest earthquakes ever recorded destroyed Anchorage and raised a *tsunami* (giant wave) that crushed the town of Valdez. Trying to reach these devastated cities was quite difficult.

Even today, Alaska's size and climate make transportation a challenge. Long ago sleds pulled by dog teams were the best way to travel for native Inuit people. (Dogsledding has since become a popular sport. The finish line for the famous Iditarod race is in Nome, Alaska.) During World War II, the 1,523-mile Alaska Highway was built, running from Dawson Creek, British Columbia, Canada, to Fairbanks. Roads are still scarce in Alaska. Much of the state can be reached only by air and sea. *Pontoons* (float planes) land on water and are a popular way to travel.



Alaska Crossword Puzzle



ACROSS

2. A _____ is a river of compacted ice.
5. A plane that lands on water is called a pontoon or _____ plane.
6. Alaska was purchased from _____.
9. An _____ destroyed Anchorage in 1964.
11. Oil, minerals, and _____ are some of Alaska's resources.
14. Some of the highest _____ can be found in Alaska.
18. The midnight _____ shines at night in summer.
19. Mount McKinley is located in _____ National Park.
20. The northern lights are also called _____ borealis.

4. Killer whales are called _____.
7. Dog _____ were once a common form of transportation in Alaska.
8. Alaska is the largest state by _____.
10. Alaska has many natural _____.
12. _____ eagles are abundant in Alaska.
13. The Alaska _____ was built during World War II.
15. The _____ race ends in Nome, Alaska.
16. A giant wave caused by an earthquake is called a _____.
17. Grizzly and polar _____ can be seen in Alaska's parks.

DOWN

1. The Trans-Alaska _____ carries oil 800 miles.
3. Alaska is now a popular _____ destination.