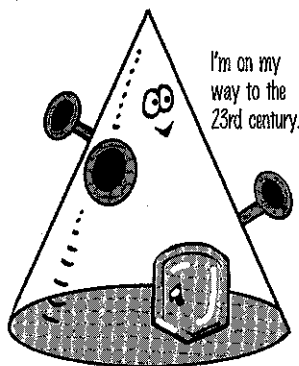


Name \_\_\_\_\_

1. Compute:  $6,000 \times 444 =$
2. Describe the difference between independent events and dependent events in a probability experiment.
3. Is the number pair (20, 4) a solution to the equation below? ( $x = 20$  and  $y = 4$ )

$$15 + 3y^2 = 2x - 7$$

4. Name this figure.  
How many faces?  
How many edges?  
How many vertices?



5. In the famous H.G. Wells novel, *Time Traveller*, a man is rocketed into the future by his time machine—stopping in the year 802,701.
  - a. If Joe took a trip in that machine, leaving in 2006 and arriving in 802,701, how many years would he leap ahead?
  - b. If Moe took a trip that rocketed ahead  $\frac{2}{5}$  as far as Joe's, in what year would the machine stop?
  - c. If Bo took a trip that rocketed ahead  $\frac{6}{10}$  as far as Joe's, in what year would the machine stop?

Name \_\_\_\_\_

1. Compute:  $10.035 - 5.503 =$
2. Zelda found a time capsule on March 1, 2000. It had been buried on August 30, 1991. How many days had it been buried?
3. Simplify the expression.

$$6b - 7a - 12 + b + 9 + c - 3a$$

4. Round these to the nearest whole number.

- |                   |                   |
|-------------------|-------------------|
| a. $2\frac{1}{5}$ | c. $8\frac{6}{9}$ |
| b. $\frac{7}{12}$ | d. $\frac{16}{3}$ |



The sands of time keep falling.

5. The students at Hendricks Middle School planned to build and sell decorative hourglasses to raise funds for their field trips. Each hourglass would contain four ounces of sand. Each grade (6th, 7th, 8th) had five homerooms, and each homeroom hoped to sell 250 hourglasses.  
  
The third-period eighth-grade math class was asked to solve the problem of how much sand was needed. The students calculated that they should buy thirty 500-pound bags of sand for this project. Is this a reasonable solution?

Name \_\_\_\_\_

1. True or false?
  - a. Vertical angles are congruent.
  - b. Two perpendicular, intersecting lines form four right angles.

2. Use words to write the expression.

$$9 + \frac{4x}{12}$$

3. When Professor Zoom gets into his time machine, he has no idea where he will travel in time. The machine can go to any of these years: 2050, 1862, 1630, 1815, 2210, 950, or 1444. What is the probability that Professor Zoom will travel to the nineteenth century?

4. Compute:  $-330 \times 5(x - 13) =$

5. Describe the first operation you will do to solve this problem.

**Julia checked her sundial and found that the time was 9:35 a.m. The next time she checked,  $6\frac{3}{4}$  hours had passed. What was the time on her second check of the dial?**



My shadow tells me it's time for math class.

Name \_\_\_\_\_

Compute:  $\frac{13}{15} + \frac{7}{12} =$

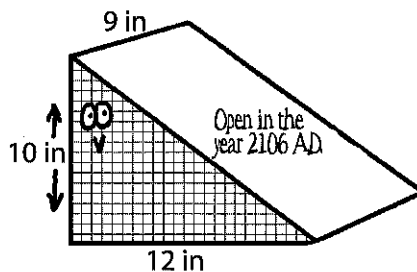
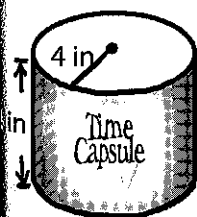
What is the coefficient of  $p^3$ ?

$$p + 3p^2 - 6p^3 + 12p$$

Round to the nearest ten thousand.

$$60,974,326$$

Which time capsule has the greater surface area?



5. Write an equation that will help you solve the problem. Find the solution.

**Two scientists left in 2004 at the same time in their time machines for travel back into history. Professor Zoom's trip took him back 215 years farther than Professor Surch. The sum of the number of years they traveled was 563. To what year did Professor Zoom travel?**

Name \_\_\_\_\_

1. Estimate to decide which quotient is greater.

a.  $17 \overline{)1,904}$

b.  $3,256 \div 37 =$

2. Compute:  $90,000,000 \div 4,500 =$

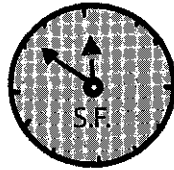
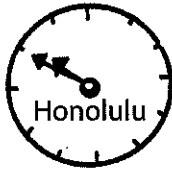
3. Solve the equation.

$-666 - 12x^2 = -966$

Could x also be the opposite number?

4. In all, 6,000 people showed up to watch the demonstration of Dr. Sylvester's time machine. The demonstration concluded with the launching of the machine. (It disappeared into thin air, leaving a trail of smoke.) As the audience left, they were surveyed to find out how many would want to take part in a time travel experiment. Of the first 100 surveys reviewed, 59 said they would take the chance. Based on this, how many people of the total crowd do you predict will say yes to time travel?

### 5. Challenge Problem



A. Ethan and Rosa each began a trip in Philadelphia, Pennsylvania (Eastern Standard Time) at 1:17 p.m. Ethan took a flight to San Francisco, California (Pacific Standard Time). The total flight time was five hours, 58 minutes. Rosa flew to Miami, Florida (Eastern Standard Time) and arrived at 4:02 p.m. How long was Rosa in Miami before Ethan arrived in San Francisco?

B. Chuck's grandfather clock chimes every 15 minutes: on the hour, half-hour, and quarter-hour. His own grandpa arrived at Chuck's home at 11:50 a.m. on Tuesday and left at 6:10 a.m. on Friday. How many times did the clock chime during Grandpa's visit?

No one knows how to program the time on this DVD player.



C. Bill is the timekeeper for a long marathon race, but Bill has a sticky problem. His watch loses six minutes every half-hour. His watch is correct when the race begins at 9:30 a.m. When the last runner comes in, Bill's watch registers a time of 2:15 p.m. What is the actual time?