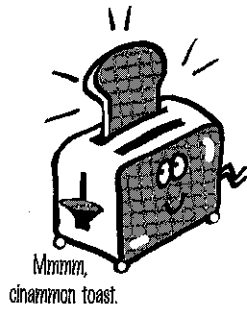


Name _____

1. What information is missing that is needed to solve this problem?

A toaster uses infrared radiation to heat a piece of bread. One 4-slice toaster has a timer set to cook the toast for 2.3 minutes. How long will it take to toast all the bread slices in one loaf?



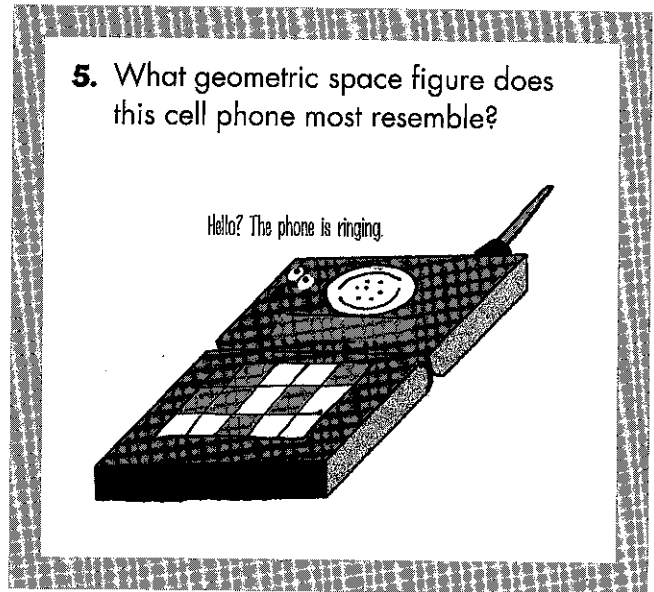
2. Compute: $33 \overline{)1,489}$

3. Lucy goes to buy a smoke detector. The store has a total of 18. They are not aware that five of them are defective. She buys two. What is the probability that both will be in good working condition?

4. Find two number pairs (n, m) that will solve the equation:

$$4n = 3m$$

5. What geometric space figure does this cell phone most resemble?



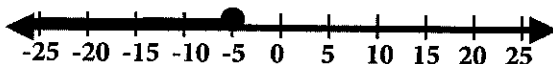
Name _____

1. A company that makes garage door openers ships 300 to a hardware store. The total load weighs 1,350 pounds. How many more openers would be needed for the shipment to total a ton?

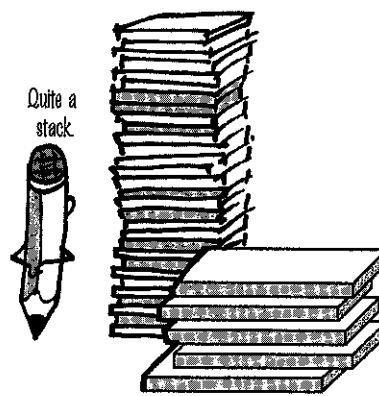
2. Compute: $4,200 \times (-1.4) =$

3. What is the LCM of 9 and 6?

4. Is this a correct graph of $x > -5$?



5. A compact disc is $\frac{4}{100}$ inch thick and has a 4.8-inch diameter. What is the volume of a stack of 100 CDs? (Round to the nearest tenth.)



Name _____

1. Compute: $-120 - 16 - (-20) =$

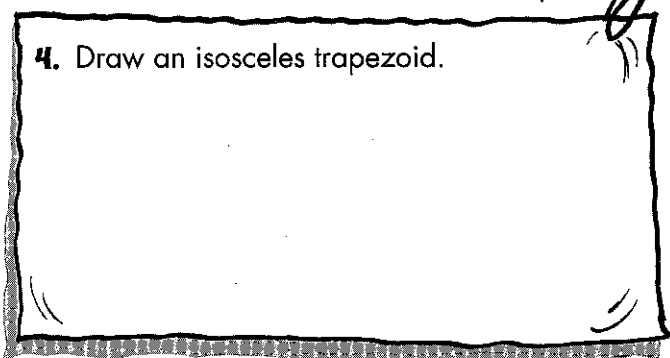
2. The electromagnet was invented in July, 1825. How many months have passed since then?

3. Simplify the expression.

$2n^2(6n^5 + 7)$



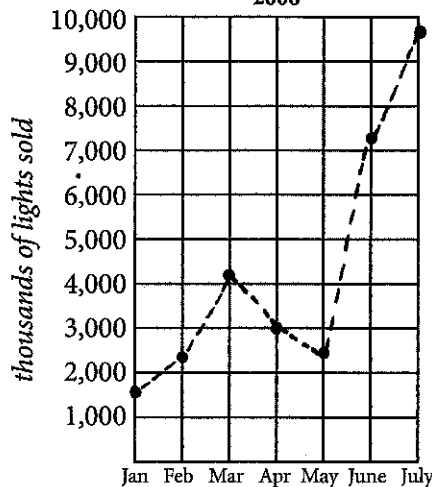
4. Draw an isosceles trapezoid.



5. About how much did sales increase from April to June?

Traffic Light Sales

2006



Name _____

1. What is nine and eight-tenths divided by three and five-tenths?

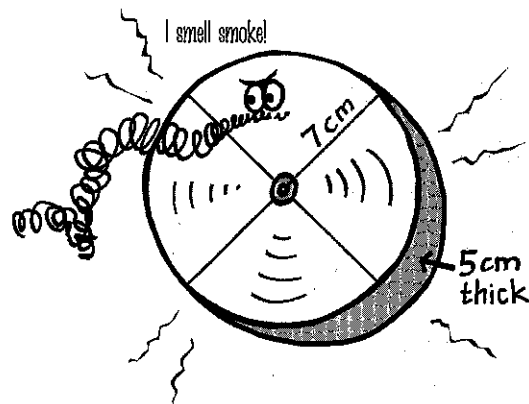
2. An electric doorbell takes a 120-volt household current and steps it down to a 10-volt current, then passes this through an electromagnet. Write a ratio to compare the beginning current to the lower current.

3. True or false:
Any rational number can be written as the quotient of two integers.

4. Solve the equation.

$36 = 4n^2 - 5(n^2 - 9)$

5. Find the surface area of this smoke detector.



Name _____

1. Fill in the missing operation.

8,000 250 = 32

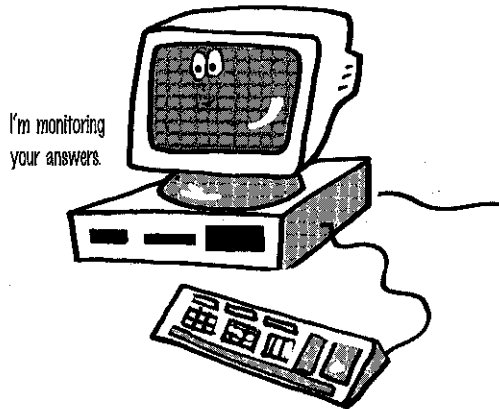
2. The number of radio frequencies each cell phone carrier gets to use in a city is a three-digit, even number. The sum of the digits is 13. The hundreds digit is four times the ones digit. What is the number?

3. Six friends each bought a digital camera. The prices they paid were:

\$320.00	\$216.00
\$197.00	\$245.00
\$196.00	\$410.00

What was the average cost of a camera?

4. In the equation $y = 3x$, if $x = -5$, what is y ?



5. Challenge Problem

This is the answer: **\$6,925.00**

What is the problem?

- A.** Max's company bought new laptop computers. They paid \$1,350 each for three computers and \$250 each for service contracts. They bought software for \$275. What did they spend all together?

- B.** A smoke detector may seem complicated with its photoelectric detectors and loud electric horn, but you can buy one for as little as \$7.00. A school bought 725 at this price and sold them for a school fundraiser. They collected \$12,000 for the sale of all the detectors. What was their profit?

- G.** A shipment of toasters was lost at sea. The container had 2,200 toasters valued at \$6.50 each. The insurance covered 65 percent of the loss. How much was not covered?

- D.** An electronic keyboard that had been used to write a hit song sold for a high price at an auction. The price was \$1,450 less than the amount paid at the same auction for an electric guitar. The total for both instruments was \$8,425. What was the cost of the keyboard?