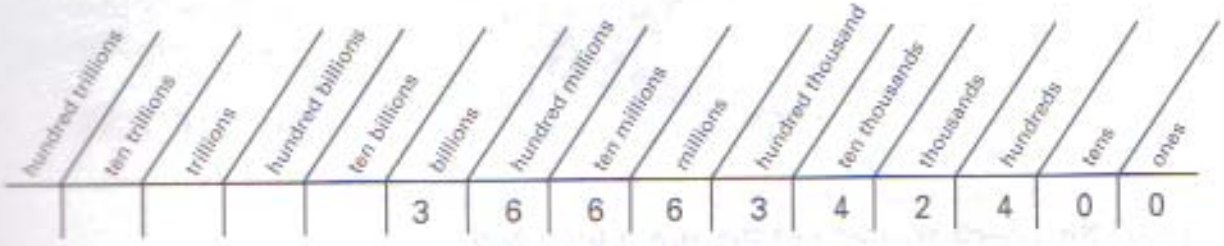
Numeration – trillions

Genesis 1:14-19 And God said, "Let there be lights in the expanse of the sky to separate the day from the night, and let them serve as signs to mark seasons and days and years, and let there be lights in the expanse of the sky to give light on the earth." And it was so. God made two great lights, the greater light to govern the day and the lesser light to govern the night. He also made the stars. God set them in the expanse of the sky to give light on the earth, to govern the day and the night, and to separate light from darkness. And God saw that it was good. And there was evening, and there was morning the fourth day."

God took great care in creating our world. The massive size of our Solar System gives evidence of the omnipotence of our Heavenly Father. Scientists today measure the distance between planets in Astronomical Units (AU). An AU is the mean distance between the earth and the sun. One Astronomical Unit (AU) is about 92,960,000 miles (149,604,970 Km). Look at the chart below. This chart lists the distances from each planet to the Sun in both Astronomical Units (AU) and miles. Can you read each number correctly?

Planet	AU	Miles
Mercury	0.39	36,254,400
Venus	0.72	66,931,200
Earth	1	92,960,000
Mars	1.52	141,299,200
Jupiter	5.20	483,392,000
Saturn	9.54	886,838,400
Uranus	19.18	1,782,972,800
Neptune	30.06	2,794,377,600
Pluto	39.44	3,666,342,400



The number can be written in three different ways.

Standard Form: 3,666,342,400

Written Form: Three billion, six hundred sixty-six million, three hundred forty-two thousand, four hundred

Expanded Form: 3,000,000,000 + 600,000,000 + 60,000,000 + 6,000,000 + 300,000 + 40,000 + 2,000 + 400

OR

Expanded Form: (3 x 1,000,000,000) + (6 x 100,000,000) + (6 x 10,000,000) + (6 x 1,000,000) + (3 x 100,000) + (4 x 10,000) + (2 x 1,000) + (4 x 100)

1 Write the number that is 5 trillion more.

129,000,072,000,000 _____

18,120,085,500,009 _____

72,100,120 _____

390,500,000 _____

2 Find the sum.

87 + 21	65 + 73	30 + 63	45 + 18	93 + 65	55 + 37

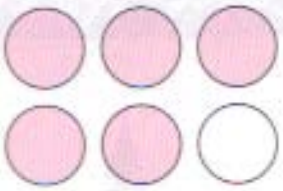
3 Find the difference.

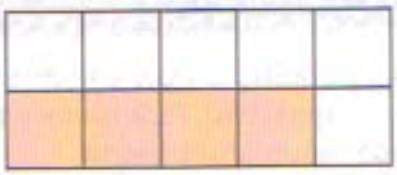
86 − 65	94 − 82	67 − 60	72 − 33	13 − 9	44 − 27

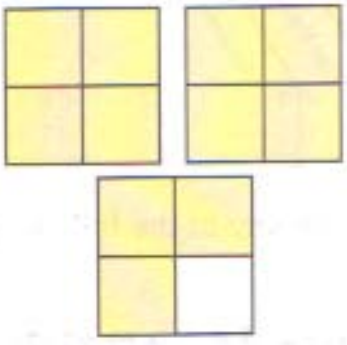
4 Draw the specified angle in the space provided.

acute angle obtuse angle right angle

5 **Write a fraction for the shaded portion. Rename (reduce) the fraction to lowest terms, if possible.**







6 **Circle the mystery number.**

I am an odd number.
I am a prime number.
My digits total another prime number.

11 21 37 91

I am an even number.
I am a multiple of 2 and 3.
The product of my digits is 12.

160 63 210 126

I am an even number.
My digits total an odd number.
I am a multiple of 5 and 7.

12 100 210 35

Numeration – hundred thousandths

First Baptist Church was building a new sanctuary. The new steeple on the sanctuary measured 76.9 meters tall. Write this number on the place value chart below.

hundreds	tens	ones	tenths	hundredths	thousandths	ten thousandths	hundred thousandths
1	5	3 .	2	1	3		

The height of the steeple can be written in any of the following forms:
Read: 76 and 9 tenths
Written: Seventy-six and nine tenths
Expanded form: 70 + 6 + .9 or (7 x 10) + (6 x 1) + (9 x 0.1)

Look at the second example which is written in for you.
Read: 153 and 213 thousandths
Written: One hundred fifty-three and two hundred thirteen thousandths
Expanded form: 100 + 50 + 3 + .2 + .01 + .003 or
(1 x 100) + (5 x 10) + (3 x 1) + (2 x 0.1) + (1 x .01) + (3 x .001)

1 **Write each number in written form. Give the place value of the blue digit.**

3.09 = _____ _____

10.37 = _____ _____

0.0018 = _____ _____

2.00001 = _____ _____

41.0005 = _____ _____

18.975 = _____ _____

2 **Write the standard form for each written or expanded number.**

15 billion, 140 million, 607 thousand _____

55 trillion, 303 billion, 561 million, twenty-one _____

(6 x 1,000,000,000,000) + (5 x 100,000,000) + (4 x 100) _____