

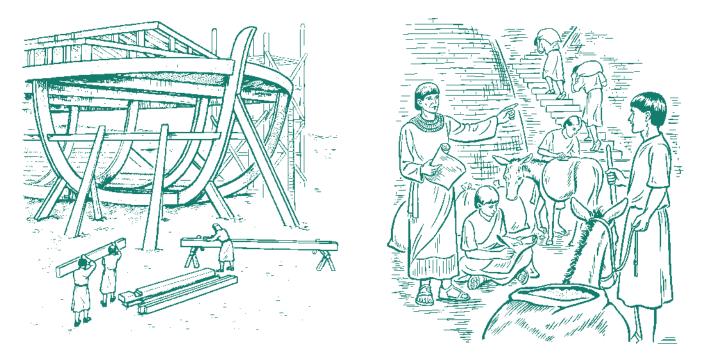
Math in the Work World

As you begin seventh grade, your life stretches before you. Today, you are making choices and forming habits that will help determine the whole course of your life.

When God created Adam, He gave Adam the responsibility to dress and keep the Garden of Eden. After Adam sinned, God told him that he would need to eat bread "in the sweat of [his] face" (Genesis 3:19). Adam then needed to work hard to grow food. God has also given every one of us the responsibility to work and manage His gifts of life, health, and abundant natural resources. True Christians choose their occupations carefully. They want all of their lives, including work, to bring glory to God.

In Math 702 through Math 710, we will focus on occupations and how the Christian serves God by the lifework he chooses. Colossians 3:23 reminds us, "And whatsoever ye do, do it heartily, as to the Lord, and not unto men." Although most of us will work for employers for all or part of our lives, our first priority should be pleasing God.

Jesus warned us not to worry and fret about food and drink and clothing, but to "seek ye first the kingdom of God, and his righteousness; and all these things shall be added unto you." (Matthew 6:33) Our task is to do the work God shows us to do, and God will provide for our needs out of His endless storehouse of good things.



Noah the ark-builder, Joseph the ruler of Egypt, Peter the fisherman, Matthew the tax collector, and many others were chosen to do special work for God. God has special work for you also. Math 700 will teach you some of the skills you will need to do that work well. Think about God's plan for your life and how this course will equip you to serve Him in the work world.



Pretest – Geometry Facts

Ask your teacher to initial the circle before you begin this pretest.

Complete the sentences. (1 point each row.) [7]

- 1. An acute angle measures between _____° and _____°.
- **2.** A straight angle has _____°.
- 3. An obtuse angle measures between _____° and _____°.
- **4.** A right triangle has one ______° angle.
- **5.** The three angles of a triangle measure a total of _____°.
- **6.** The four angles of a quadrilateral measure a total of _____°.
- 7. The four angles formed by a pair of intersecting lines measure a total of _____°.

Write the numbers. (1 point each blank.) [5]

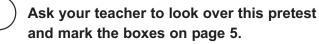
- 8. A scalene triangle has _____ congruent sides.
- **9.** An equilateral triangle has _____ congruent sides.
- **10.** An isosceles triangle has _____ congruent sides.
- **11.** The fraction we use for π (pi) is _____.
- **12.** A quadrilateral has ______ sides.

Write the formulas. (1 point each.) [3]

13. The formula for the area of a circle is _____.

14. The formula for the volume of a rectangular prism is _____

15. The formula for the perimeter of a rectangle or parallelogram is _____



I can have 15 answers correct. I must have 14 answers correct to pass. I have _____ correct.



Scrambled Geometry

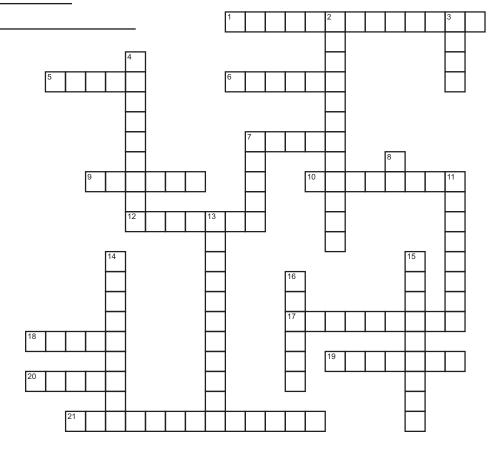
Unscramble the geometry words. Write them in the puzzle. All the words are found on page 3.

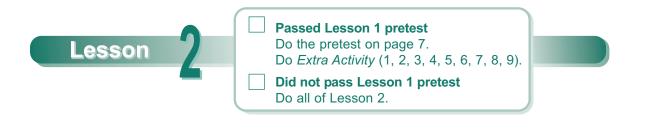
ACROSS

- 1. dlqarualitera _____
- 5. nlies _____
- 6. tsuoeb _____
- 7. elgna _____
- 9. mulveo _____
- **10.** gtsathir _____
- **12.** Inesaec ______
- 17. tergnacel _____
- **18.** sipmr _____
- **19.** moflrau ______
- **20.** gtrih _____
- 21. plaglimeoarar _____

DOWN

- 2. snietctgenri _____
- **3.** raea ______
- 4. scilesoes _____
- 7. tuace _____
- 8. ip _____
- **11.** gtanirel _____
- 13. lqteirualea _____
- 14. mpiertere _____
- **15.** gtunceonr _____
- 16. clicre _____





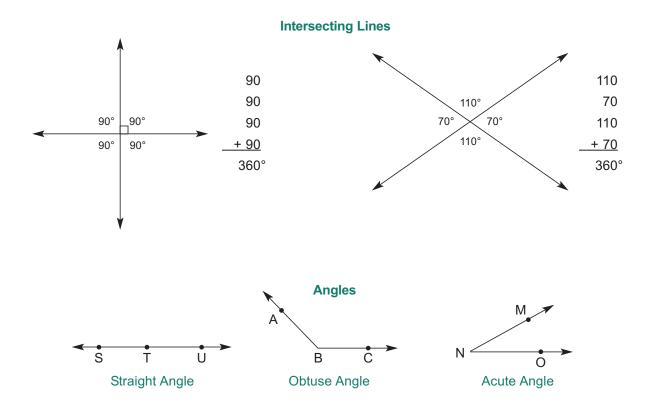
Practice Set – Geometry Facts

Introduced in Math 600, various lessons

If you need some help with geometry facts, use the Intermediate Math Reference Chart. The number after each exercise below tells where this item was introduced. For example, 602-03 means Item 1 was introduced in Math 602, Lesson 3.

Complete the sentences.

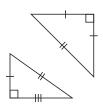
- 1. The four angles formed by a pair of intersecting lines measure a total of _____°. 602-03
- 2. A straight angle has _____°. 603-03
- 3. An obtuse angle measures between _____° and _____°. 603-03
- 4. An acute angle measures between _____° and _____°. 603-03



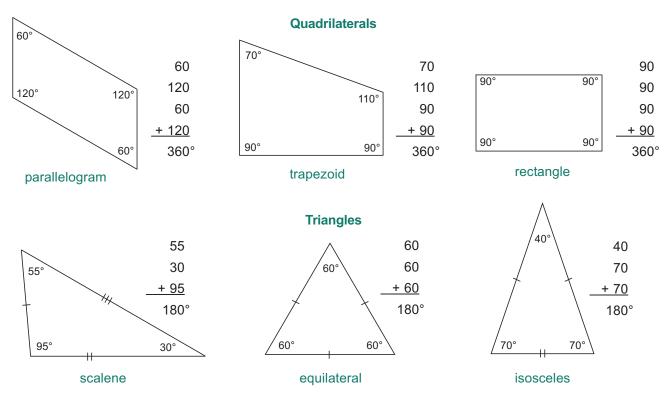
Lesson 2

Complete the sentences.

- 5. The four angles of a quadrilateral measure a total of _____°. 605-07
- **6.** The three angles of a triangle measure a total of _____°. 607-13
- **7.** A right triangle has one ______° angle. 606-13



right triangles



Write the numbers.

- 8. A quadrilateral has _____ sides. 604-09
- 9. An equilateral triangle has _____ congruent sides. 602-14
- **10.** A scalene triangle has _____ congruent sides. 602-14
- 11. An isosceles triangle has _____ congruent sides. 602-14
- **12.** The fraction we use for π (pi) is _____. 603-13

Write the formulas. Refer to your Intermediate Math Reference Chart if you need to.

- **13.** The formula for the area of a circle is _____. 606-01
- **14.** The formula for the volume of a rectangular prism is ______. 607-09
- **15.** The formula for the perimeter of a rectangle or parallelogram is ______. 606-12

Lesson 2



Divide. Write remainders with R. (1 point each.) [8]

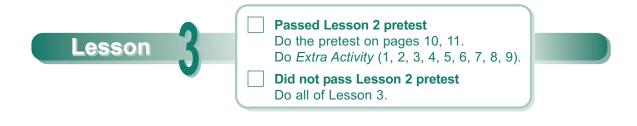
1. a. 316)2,938	b. 790)5,530	c. 524)25,689
------------------------	---------------------	----------------------

2. a. 241)1,962 b. 378)35,589 c. 656)3,936

3. a. 965)44,390 b. 632)480,299

Ask your teacher to look over this pretest and mark the boxes on page 8.

I can have 8 answers correct.
I must have 7 answers correct to pass.
I have correct.



Practice Set – Division with Three-Digit Divisors

Introduced in Math 603, Lesson 13

Division With Multiples of 10, 100, or 1,000

Equal numbers of zeros in both the dividend and the divisor can be canceled before dividing.

9	9	9	9
3)27	3Ø)27Ø	3ØØ)2,7ØØ	3,ØØØ)27,ØØØ

Divide mentally and write the quotients.

1. a. $200\overline{)1,200}$ **b.** $700\overline{)5,600}$ **c.** $500\overline{)2,500}$

Introduced in Math 604, Lesson 1

Dividing by Multiples of 100 With Remai	nders o o o	• Place the quotient
When the divisor is a multiple of 100, but the dividend does not end with two zeros, there will be a remainder.	7 R159 300)2,259 <u>2,100</u> 159	above the correct place value in the dividend.

Divide. Write remainders with R.

2. a. 900)5,034	b. $400)2,693$	c. $800)7,603$
z. a. 500/5,054	\mathbf{D} . + 00/2,000	\mathbf{C} . 000/1,000

Introduced in Math 604, Lessons 7 and 12; Math 605, Lesson 1

Estimating With Three-Digit Divisors

To divide by a three-digit divisor, estimate how many times the divisor will divide into the dividend.

Sometimes that estimate will be too large. After you multiply, you won't be able to subtract. Then change your estimate to a smaller number.

Sometimes the estimate will be too small. When you compare, the answer you get from subtracting is equal to or larger than the divisor. Then change your estimate to a larger number.

Sometimes the estimate will not need to be changed.

Divide. Write remainders with R.

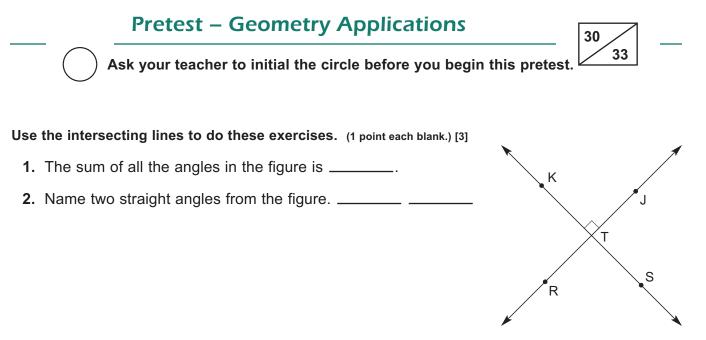
3. a. 784)2,412	b. 281)2,248	c. 328)1,968
4. a. 514)2,532	b. 451)3,616	c. 342)2,394

Introduced in Math 606, Lesson 9	<u> </u>
Larger Dividends With Three-Digit Divisors	894)121,907 <u>894</u>
When dividing larger problems with three-digit divisors, repeat the five steps of divison until you have no more digits left to bring down.	3 2 5 0 <u>2 6 8 2</u> 5 6 8 7
	<u>5 3 6 4</u> 3 2 3

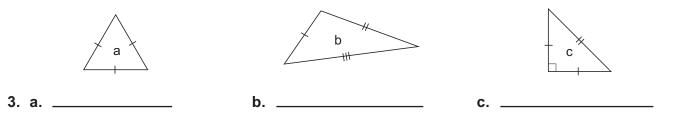
Divide. Write remainders with R.

5. a. 139)126,100	b. 165)124,000
--------------------------	-----------------------

Lesson 3



Classify by length of sides. Choose from equilateral, isosceles, or scalene. (1 point each.) [3]



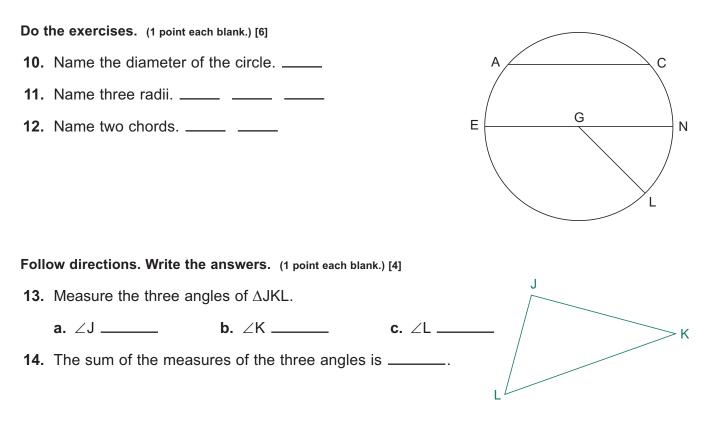
Classify by angles. (1 point.) [1]

4. Write the letter of the triangle above which is also a right triangle.



Write the letters from the quadrilaterals above to answer the questions. (1 point each blank.) [12]

- 5. Which two figures are trapezoids? _____
- 6. Which figure is a square? _____
- 7. Which two figures are rectangles? _____
- 8. Which five figures are parallelograms? _____ ____ ____ _____
- 9. Which two figures are rhombuses? _____



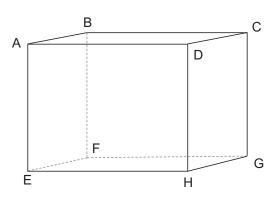
Tell whether each part names a *face*, an *edge*, or a *vertex* of one of the figures below.

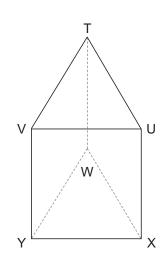
b. A _____

(1 point each blank.)



15. a. TW _____





)	Ask your teacher to look over this pretest
	and mark the boxes on page 12.

I can have 33 answers correct.
I must have 30 answers correct to pass.
I have correct.