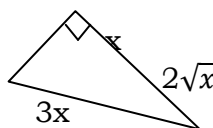
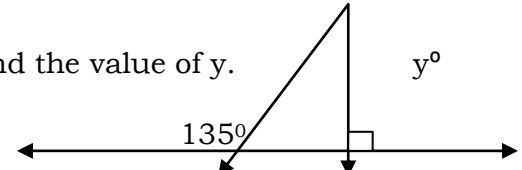


# Hoover High School Pre-Algebra Cipherring 2010

- 7 1-1 How many prime numbers are between the numbers 20 and 50?
- 6 1-2 When  $\frac{4}{11}$  is written as a decimal, find the 100<sup>th</sup> digit that is after the decimal place.
- 25 1-3 40 % of half a class are wearing sneakers. If there are 20 people not wearing sneakers, how many people are in the class?
- 28 1-4 Find the value of x  $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{16}{x}$
- $\frac{-29}{200}$  1-5 Find the fraction in simplest form that is exactly midway between -.3 and .01.
- $\frac{1}{2}$  2-1 Find x in the right triangle.
- 
- 36 2-2 Five friends have an average age of 32. Four of the friends are the same age and the oldest friend is 5 years older than the rest. How old is the oldest friend?
- 49 2-3 If the pattern continues, how many dots will be in the 25<sup>th</sup> row?
- |       |               |
|-------|---------------|
| row 1 | •             |
| row 2 | • • •         |
| row 3 | • • • • •     |
| row 4 | • • • • • • • |
- 45 2-4 Find the value of y.
- 
- 120000 2-5 Alonzo makes \$20000 base salary plus 10% commission on sales. If Alonzo made \$32000 total, how much were his sales?
- 3/10 3-1 Given the digits from 0 to 9, find the probability of selecting a single digit n such that the number, 12,34n,456 is divisible by 6
- \$27 3-2 Twelve notebooks cost \$18. How much will it cost to buy 18 notebooks ?
- $\frac{729x^2}{4}$  3-3 Simplify:  $\left[ ((3x)^3) \left( \frac{1}{2x^2} \right) \right]^2$
- 25 3-4 Evaluate:  $1 - |13 - 2| - |4 - 17| - 2 =$
- \$399.30 3-5 A bank pays 10% interest each year on money in a savings account. If you start with \$300 in a savings account, how much money will be in the account after 3 years?
- $\frac{3py}{2x}$  4-1 Solve for t:  $\frac{x}{y} = \frac{3p}{2t}$
- $\frac{-39}{8}$  4-2 Find x :  $12x = 1 - 4(10 - x)$
- 15251 4-3 Find the sum of the integers from 101 to 201 inclusive.
- $\frac{16}{15}$  4-4 Simplify:  $\frac{4}{3 + \frac{3}{2 + \frac{2}{1}}}$
- 3 4-5 Find the sum of all the values for x:  $\frac{(x-1)(x-2)}{(x-3)} = 0$