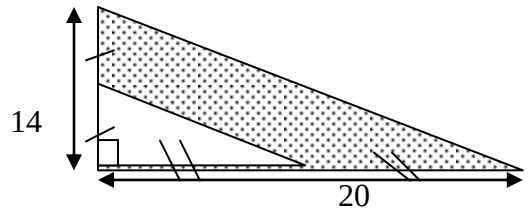
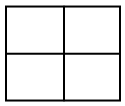
Hoover HS Ciphering Answers 2009

4	1-1	Find the sum of the numbers in the third row of Pascal's Triangle.
13	1-2	The point (-12 , 5) is rotated 630^0 CCW about the origin. How far is the new point from the origin ?
11/20	1-3	What fraction of a dollar is left after you spend .45 of the dollar.
1	1-4	What value of x makes this fraction equal to zero? $\frac{4x-4}{16x+16}$
13x/12	1-5	Simplify: $\frac{x}{2}+\frac{x}{3}+\frac{x}{4}$
105	2-1	Find the area of the shaded region.



1024	2-2	Half the square root of a number is 16. Find the number.
5/8	2-3	If a game is halfway through the second quarter, what fraction of the game is left?
3/5	2-4	Solve for x: -3 (1 – x) + 6 = 4 – 2 (x – 1)
1/221	2-5	Find the fractional probability of drawing two aces in a row, without replacement from a standard deck of 52 playing cards.
24	3-1	Officer Brown has four people lined up against the wall. How many ways can the four people be lined up?
63	3-2	Simplify: 1 – 2 (3 – 4 (5 – 6 (7 – 8))) =
9	3-3	A square is divided into smaller squares as shown. How many rectangles are there?



-4	3-4	If a & b means: 2a – 2b. Find the value of (2 & 2) & 2
-7	3-5	Find x: $\frac{x+1}{x-1}=\frac{3}{4}$
360	4-1	The sum of Jack and Jills' ages is 42. The difference in their ages is 18. Find the product of their ages.
$\sqrt{2}$	4-2	The reciprocal of a certain positive number is equal to half of the positive number. Find the number.
¼	4-3	John and Debbie are running in a race. John runs 5mph and Debbie runs 3 mph. If Debbie gets a ½ mile head start, how many hours does it take John to catch Debbie?
60^0	4-4	Find the measurement of the acute angle made by the hour and minute hand on a clock at exactly 10 am.
4/33	4-5	Write $.\overline{12}$ as a simplified fraction.