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DIR	NAME MEET 5 PYTHAGOREAN DIVISION MARCH 12, 1998 ECTIONS: Place your answer to each question below in the answer column.	GRADE 9 30 MINUTES ANSWER COLUMN
1)	If ${}_{a}{}^{R}{}_{b}$ is defined as 4a+1-2b and if ${}_{6}{}^{R}{}_{5}$ = ${}_{4}{}^{R}{}_{x}$, find x.	1)
2)	If $2^k = x$, then 2^{k-3} is: a) $\frac{x}{3}$ b) $\frac{x}{6}$ c) $\frac{x}{8}$ d) $\sqrt[3]{x}$	2)
3)	A cube has how many planes of symmetry?	3)
4)	In the diagram at the right, the area of the shaded region is: a) $8(\pi-4)$ b) $4(8-\pi)$ c) $2(16-\pi)$ d) $8(4-\pi)$	4)
5)	A positive number, when divided by twice its reciprocal, is equal to 18. Find that number.	5)
6)	Each different letter in the words "I am Nan" represents a different digit. Each time the same letter appears it represents the same digit. Each of the words represents a one-digit, a two-digit and a three-digit perfect square number and the sum of the digits for each of the two and three digit numbers is also a perfect square. (The three-digit perfect square is from the list: 100, 121, 144, 169, 196, 225, 256, 289, 324, 361, 400, 441, 484.) Find the 3 numbers that represent "I am Nan".	6)