	Elementary Grades Math Competition ril 2006	NAME:	
	Round - Grade Seven Division	SCHOOL:	
1.	Simplify: $\frac{432143214321}{4321} =$		
		-	1
2.	A pair of two consecutive odd numbers that "Twin Primes". The first such pair is {3,5} The second such pair is {5,7} and the sum of the members of the fifth	and the sum of its members is 8. of its members is 12.	
			2
3.	A bus leaves Vancouver every day of the wat 1 AM and every 4 hours thereafter (day of for 4 days and 7 hours before reaching Toro How many buses are en route from Vancouver	or night) and it travels onto.	
			(1
		-	(buses)3
4.	A group of seven people including Pims an at random. What is the probability that ther between Pims and Smip? Express your ans	e is exactly one person	
			4

Grade Seven (7) Division

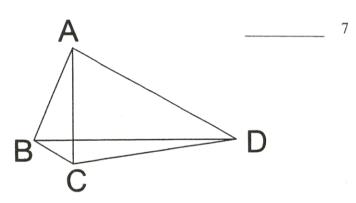
5. X = 7.2, Y = 7.2. Round $X \times Y$ to the nearest whole number.

5

6. Let p be a prime number between 40 and 60. What is the probability that p+12 is also a prime number? Express your answer as a common fraction.

	6
--	---

7. Let the operation \otimes be defined as $\otimes (a,b,c,d) = ad - bc$. What is the value of $\otimes (\otimes (0,1,2,3), \otimes (3,2,1,0), \otimes (1,2,3,4), 5)$?



8. ABCD is a 4-sided polygon (not drawn to scale). The lengths of its two diagonals are integers and they add up to 75 units.

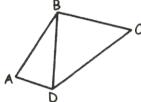
The diagonals are perpendicular to each other.

The area of the polygon is 427 square units.

What is the size of the larger of the diagonals?

9. The math teacher went to the store and bought 25 binders for her students at a cost of \$2.60 per binder. She handed \$100 to the cashier. How many dollars did she receive as change?

____(\$) 9



10. ABCD is a 4-sided polygon.

Given that AB = BC, $\angle ABD = 30^{\circ}$, $\angle DBC = 80^{\circ}$, and $\angle BCD = 50^{\circ}$,

what is the number of degrees in the measure of $\angle DAB$?

(°) 10

11. How many prime number between 0 and 120 have a unit's digit of 7?

11

12. A man has 3 pennies, 3 nickels, 1 dime, and 2 quarters. How many different SUMS of money can he make using one or more of these 9 coins?

(sums) 12