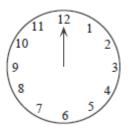
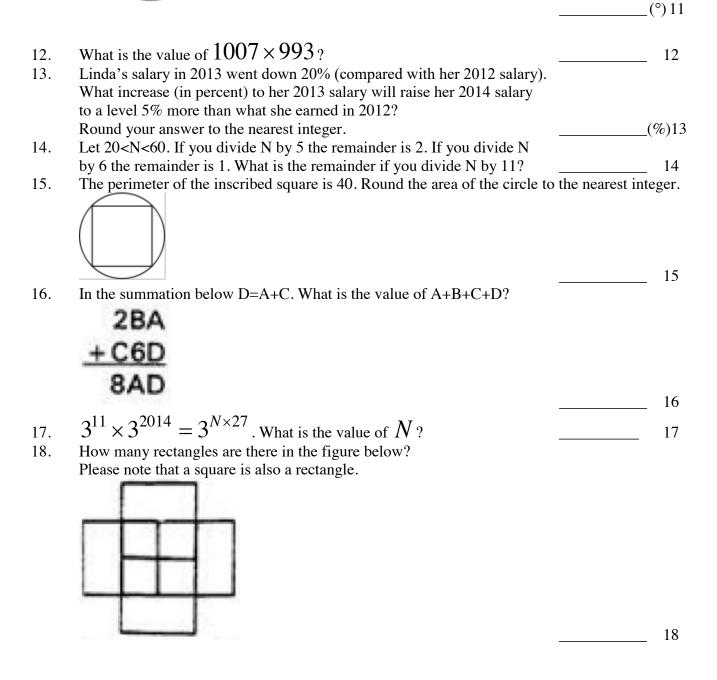
PIMS Elementary Grades Math Competition 03 May 2014		NAME:	
	ay 2014 t Round - Grade Six Division	SCHOOL:	
1.	You throw one fair die. What is the probab Express your answer as a common fraction		1
2.	What is the digit sum of 2014?		2
3.	The area of the rectangle is 48 and the valu What is the value of the longer side?	e of the shorter side is 6.	2
			3
4.	You bought a ticket to a hockey game at a How many dollars did you pay in total?	cost of \$120 plus 5% tax.	
5.	The right triangle below consists of 2 isosce What is the value (in degrees) of the angle		(\$) 4
	1260		(°) 5
6.	What is the sum of the four smallest prime	s?	
7.	Round 21% of 21 to the nearest integer.		6
			7
8.	Every student in a class of 25 sent an e-ma of the class. How many e-mails were sent i		8
9.	What fraction is 15% of 15% of 25?		9

Grade Six (6) Division

- 10. Round $\sqrt{0.2014 \times 1000}$ to the nearest whole number. 10
- 11. What is the acute angle (in degrees) between the hour hand and the minute hand at 3:20?





Grade Six (6) Division

Orade	
19. 20.	What is the smallest whole number N such that $5^N > 4000000$? 19 The measures of the sides of triangle A are 5cm, 5cm and 6cm. The measures of the sides of triangle B are 5cm, 5cm and 8cm.
	What is the difference between their areas (in square cm)? $(Cm^2) 20$
21. 22.	You traveled 4.725 km at a speed of 13.5 km/h. How many minutes did you travel? (m)21 In how many ways can you walk from Point A to point B if you must walk along the directions marked by arrows?
23.	Suppose that when a man is at point A (see the figure for Question 22), the probability that
	he walks along any of the three paths is $\frac{1}{3}$. If he is at point X the probability that
	he walks along any of the 2 paths is $\frac{1}{2}$. If he is at point Y, the probability that
	he walks along any of the three paths is $\frac{1}{3}$. Two men walk independently from point A to point B. What is the probability that both choose the same path? 23
24.	In a club, the ratio of boys to girls was $\frac{13}{19}$. Then, 4 more boys joined the
	club and now the new ratio is $\frac{5}{7}$. How many girls are in the club? 24
25.	ΔABC is equilateral with side 4. $AD = DB$, and ΔADF is equilateral.
	What is the area of $\Delta\!AEF$? Express your answer as $rac{\sqrt{N}}{M}$ where N and M
	are positive whole numbers and N has no square factors other than 1.
	B G C 25
	23

26. Find the sum of all prime factors of $3 \times 5 \times 2014$?