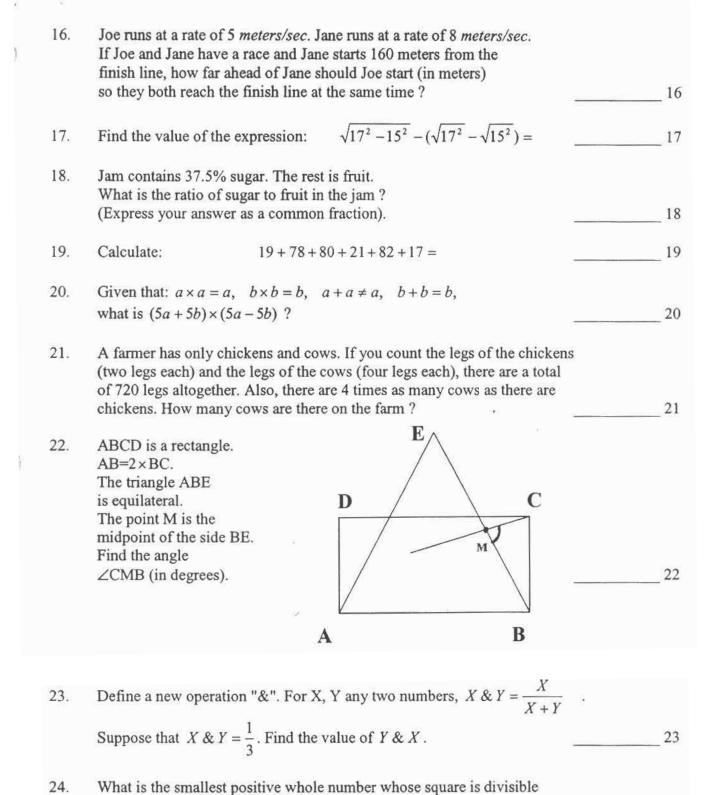
	Elementary Grades Math Competition by 2004	NAME:	
Sprint Round - Grade Seven Division		SCHOOL:	
1.	Find: $1+2+4+8+\cdots+1024 =$		_ 1
2.	If $\sqrt{x+5} = 8$ , what is the value of x?	i <del></del>	_2
3.	Find: $\frac{\frac{13}{33} - \frac{1}{11}}{\frac{16}{33}} \times \frac{16}{23} =$	· · · · · · · · · · · · · · · · · · ·	_ 3
4.	What is the remainder when $1 \times 2 \times 3 \times \cdots \times 10 \times 11 - 3^2$ is divided by 7?		_ 4
5.	What is the product of all the prime factors of 630?		_ 5
6.	If $7 \times X + 13 = 2004$ , what is $14 \times X + 13$ ?		_ 6
7.	Find the value of: $(77 \times 7) + (11 \times 7) + (22 \times 7) =$		_ 7
8.	What is the sum of all prime factors of 330?		_ 8
9.	$\frac{x}{y} = 2.5$ and $\frac{x+y}{x-y} = 2\frac{8}{z}$ . What is the value of z?		_9
10.	On a planet far away, the year is 600 days long, and weeks are still 7 days long with the same names for each day of the week as on planet Earth. On one year, New Year's day was on Sunday. On what day of the week was the next New Year's day?		_10
11.	What is the sum of the first 2004 terms of the sequence 0,1,2,0,1,2,0,1,2,?		_11
12.	There are eleven teams in a basketball tourn must play all other teams exactly twice. Ho need to be played in this tournament?		_ 12
13.	Find the number $y$ such that $3 \times y \times 3 = 1 + 1$	5-9+13-17+21-25+29	_ 13
14.	What is $\sqrt{1500^2 + 2000^2}$ ? (Hint: $3^2 - 4$ )	1 <sup>2</sup> - 25 ).	_ 14
15.	a, b, and $c$ , the lengths of the sides of the tr We know that $a = 7$ and that $b = 11$ . What is the maximum possible value of $c$ ?		_ 15



24

25

by every whole number from 1 to 10?

(Give your answer as a common fraction).

Mary rolls three fair dice. The total sum of the three rolls is 15.

What is the probability that one of the rolls is a 3?

25.