Name Date

INEQUALITIES FROM WORD PROBLEMS B1

	WORD PROBLEM	INEQUALITY
1)	Captain and Frazer have some gold coins. Captain has more than twice as many coins as Frazer. *Write an inequality using the variables **c** and **f**, where **c** is the number of coins Captain has and **f** is the number of coins Frazer has.*	
2)	Flame runs the 100 yard dash in **f** seconds. Captain completes the dash in **t** seconds, more than 10 seconds slower than Flame. *Write an inequality using the variable **t** in terms of **f** to show how long it takes him to run 100 yards.*	
3)	Sally can fit a maximum of 4 gingerbread men on each tray. *If she uses **t** trays, write an inequality using the variable **n,** the number of gingerbread baked, in terms of **t** to show how many gingerbread men she could have made.*	
4)	A scout group goes camping for a week. Each member of the group drinks a minimum of 3 water bottles in a day. Write an inequality for **n** the total number of bottles drunk in terms of **p** the number of people in the group.	
5)	Tyger and his 3 friends go to a restaurant for a meal. They have a maximum combined budget of **$B** and they agree to split the bill 4 ways. *If they each pay a total of **$p**, write an inequality to show the amount they each pay for the bill in terms of their budget, **B**.*	
6)	On a rollercoaster ride, there are **c** open cars. Each open car can hold a maximum of 6 people. Write an inequality for the number of people, **p**, on the ride in terms of the number of open cars, **c**.	
7)	Andy jumps **a** cm in the long jump. His friend Bill manages to jump more than 10 cm further. *If Bill jumps **b** cm, write an inequality for **b** in terms of **a**.*	
8)	Kylie is more than three as old as Ben. If Ben is **b** years old, write an inequality for Kylie's age (**k**) in terms of Ben's age, **b**.	

Name Date

INEQUALITIES FROM WORD PROBLEMS B1 ANSWERS

	WORD PROBLEM		INEQUALITY
1)	Captain and Frazer have some gold coins. Captain has more than twice as many coins as Frazer. *Write an inequality using the variables **c** and **f**, where **c** is the number of coins Captain has and **f** is the number of coins Frazer has.*		c > 2f
2)	Flame runs the 100 yard dash in **f** seconds. Captain completes the dash in **t** seconds, more than 10 seconds slower than Flame. *Write an inequality using the variable **t** in terms of **f** to show how long it takes him to run 100 yards.*		t > f + 10 seonds
3)	Sally can fit a maximum of 4 gingerbread men on each tray. *If she uses **t** trays, write an inequality using the variable **n**, the number of gingerbread baked, in terms of **t** to show how many gingerbread men she could have made.*		n ≤ 4t
4)	A scout group goes camping for a week. Each member of the group drinks a minimum of 3 water bottles in a day. Write an inequality for **n** the total number of bottles drunk in terms of **p** the number of people in the group.		n ≥ 7 x 3p so n ≥ 21p
5)	Tyger and his 3 friends go to a restaurant for a meal. They have a maximum combined budget of **$B** and they agree to split the bill 4 ways. *If they each pay a total of **$p**, write an inequality to show the amount they each pay for the bill in terms of their budget, **B**.*		p ≤ B/4 or p ≤ B ÷ 4
6)	On a rollercoaster ride, there are **c** open cars. Each open car can hold a maximum of 6 people. Write an inequality for the number of people, **p**, on the ride in terms of the number of open cars, **c**.		p ≤ 6c
7)	Andy jumps **a** cm in the long jump. His friend Bill manages to jump more than 10 cm further. *If Bill jumps **b** cm, write an inequality for **b** in terms of **a**.*		b > a + 10
8)	Kylie is more than three as old as Ben. If Ben is **b** years old, write an inequality for Kylie's age (**k**) in terms of Ben's age, **b**.		k > 3b