



Word Problems Leading to Inequalities

Grade 7 Place Value Worksheet

Date: _____

Name: _____

SOLVE THE FOLLOWING WORD PROBLEMS

1. Bryan is more than three times as old as Alice. If Alice is 6 years old, Write an inequality involving the variable **B** to show how old Bryan is.
2. Stacy is more than four times as old as Lucy. If Lucy is 4 years old, Write an inequality involving the variable **S** to show how old Stacy is.
3. Kelvin runs the 100 yard dash in 10 seconds. Gabriel is not as fast as Kelvin and takes more than twice as long. Write an inequality using the variable **k** to show how long it takes him to run 100 yards.
4. Steph has a 1-liter water bottle of water. She drinks more than half the water. Write an inequality using the variable **y** which describes how much water is left in the bottle.
5. Ted is going on a class trip. He can take a maximum of \$10 spending money. Write an inequality using the variable **t** which describes the amount of spending money he can take.
6. The minimum height to go the shooting star ride is 5 foot 6 inches. Write an inequality using the variable **h** which describes the height needed to go on the ride.
7. Kate is making cookies. They need to be cooked in the oven for at least 12 minutes. Write an inequality using the variable **k** which describes the amount of cookies need to be cooked.
8. Bob jumps 400cm in the long jump further than his friend Liam. Write an inequality using the variable **l** which describes how far Liam jumped.
9. Jones counts the coins in his money box and finds that he has more than \$2 in coins. Write an inequality using the variable **j** which describes the amount of money he has in his money box.
10. In a throwing contest, Fred throws the ball more than 20 yards. Newton throws twice as far as Fred. Write an inequality involving the variable **f** to show how far Newton throws the ball.



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Answers

1. $B > 18$ years
2. $S > 16$ years
3. $k > 20$ seconds
4. $y < \frac{1}{2}$ liter
5. $t \leq \$10$
6. $h \geq 5ft6$ in
7. $k \geq 12$ minutes
8. $l < 400$ cm
9. $j > \$2$
10. $f > 40$ yards