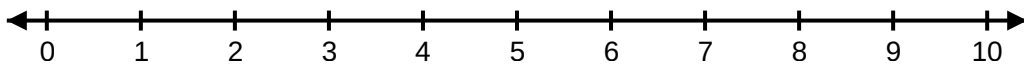

ALGEBRA: SOLVING LINEAR INEQUALITIES**Best Guess Mastery Worksheet (Target Grade 4/5)****I Do**

(a) Solve the inequality $3x - 5 > 10$

..... (2)

(b) Represent your solution on the number line below.



(1)

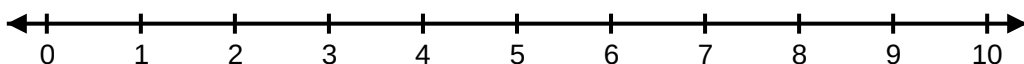
We Do

(Total for question is 3 marks)

(a) Solve the inequality $4x + 7 \leq 27$

..... (2)

(b) Represent your solution on the number line below.



(1)

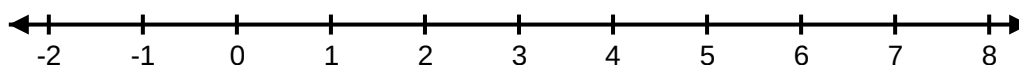
(Total for question is 3 marks)

ALGEBRA: SOLVING LINEAR INEQUALITIES**Best Guess Mastery Worksheet (Target Grade 4/5)****You Do 1**

(a) Solve the inequality $5x - 2 \geq 13$

..... (2)

(b) Represent your solution on the number line below.



(1)

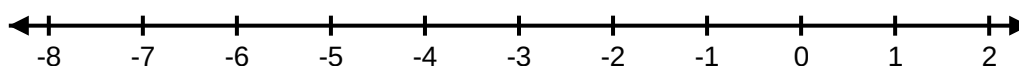
You Do 2

(Total for question is 3 marks)

(a) Solve the inequality $2x + 9 < 1$

..... (2)

(b) Represent your solution on the number line below.



(1)

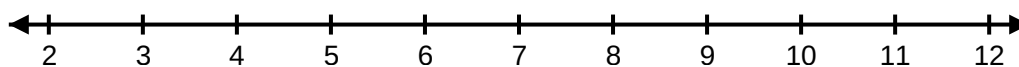
(Total for question is 3 marks)

ALGEBRA: SOLVING LINEAR INEQUALITIES**Best Guess Mastery Worksheet (Target Grade 6/7)****Challenge 1**

(a) Solve the inequality $3(2x - 1) \geq 5x + 4$

..... (2)

(b) Represent your solution on the number line below.



(1)

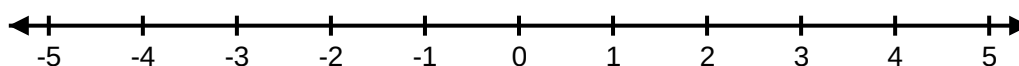
Challenge 2

(Total for question is 3 marks)

(a) Solve the inequality $-2 < 3x + 4 \leq 13$

..... (2)

(b) Represent your solution on the number line below.



(1)

(Total for question is 3 marks)

Answers & Worked Solutions

I Do:

- (a) Add 5 to both sides: $3x > 15$. Divide by 3: $x > 5$.
- (b) Draw an **open circle** at 5, with a straight arrow pointing to the right ($\rightarrow$).

We Do:

- (a) Subtract 7 from both sides: $4x \leq 20$. Divide by 4: $x \leq 5$.
- (b) Draw a **closed (filled) circle** at 5, with a straight arrow pointing to the left ($\leftarrow$).

You Do 1:

- (a) Add 2 to both sides: $5x \geq 15$. Divide by 5: $x \geq 3$.
- (b) Draw a **closed (filled) circle** at 3, with a straight arrow pointing to the right ($\rightarrow$).

You Do 2:

- (a) Subtract 9 from both sides: $2x < -8$. Divide by 2: $x < -4$.
- (b) Draw an **open circle** at -4, with a straight arrow pointing to the left ($\leftarrow$).

Challenge 1:

- (a) Expand the bracket: $6x - 3 \geq 5x + 4$. Subtract $5x$ from both sides: $x - 3 \geq 4$. Add 3 to both sides: $x \geq 7$.
- (b) Draw a **closed (filled) circle** at 7, with a straight arrow pointing to the right ($\rightarrow$).

Challenge 2:

- (a) Subtract 4 from all three parts of the inequality: $-6 < 3x \leq 9$. Divide all parts by 3: $-2 < x \leq 3$.
- (b) Draw an **open circle** at -2, and a **closed (filled) circle** at 3. Draw a straight line connecting the two circles.