



8.5 Puzzle Time

$< >$ open
 $\leq \geq$ closed

What Kind Of Cheese Comes With A House?

Write the letter of each answer in the box containing the exercise number.

Write the word sentence as an inequality.

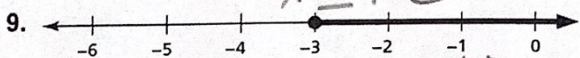
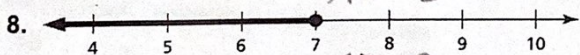
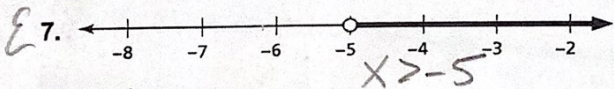
- A number x is more than 15. $x > 15$ E
- A number b is less than 23. $b < 23$ O
- A number y is at most 8. $y \leq 8$ C
- Three plus a number a is greater than or equal to 19. $3 + a \geq 19$ E

Tell whether the given value is a solution of the inequality.

5. $\frac{a}{4} > 5; a = 28$ $\frac{28}{4} > 5 \rightarrow 7 > 5$ yes

6. $z + 5 \leq 13; z = 9$ $9 + 5 \leq 13 \rightarrow 14 \leq 13$ no

Write an inequality that represents the graph.



Match each inequality with its graph.

- | | |
|------------------|-------------------|
| 10. $x < -4$ H | 11. $a \geq -3$ G |
| 12. $p \leq 3$ T | 13. $y > -2$ S |

Answers

~~E. $x > -5$~~ ~~C. $y \leq 8$~~

~~T. $x \geq -3$~~

H.

~~E. $x > 15$~~ ~~A. no~~

G.

~~E. $3 + a \geq 19$~~

S.

O. $b < 23$

C. $x \leq 7$

T.

~~E. yes~~

8	2	12	9	6	11	5		3	10	1	7	13	4
C	O	T	T	A	G	E		C	H	E	E	S	E