

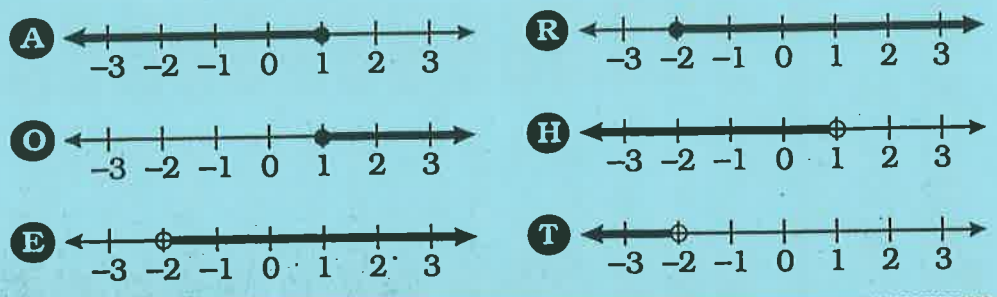
KEY

Where Do Airline Pilots Keep Their Uniforms?

 For each exercise, write the letter of the answer in the box containing the exercise number.

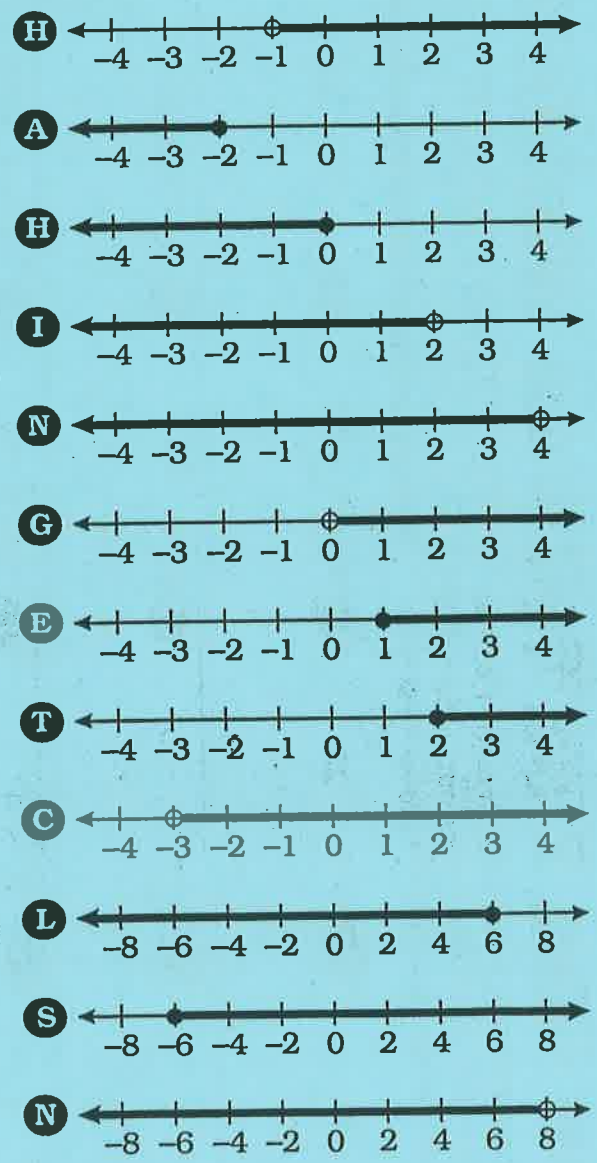
In Exercises 1-6, match the inequality with its graph.

- 1 $x < 1$ **H**
- 2 $x \leq 1$ **A**
- 3 $x > -2$ **E**
- 4 $x \geq -2$ **R**
- 5 $-2 > x$ **T**
- 6 $1 \leq x$ **O**



In Exercises 7-18, solve the inequality. Then graph the solution.

- 7 $4n + 1 < 9$
 $4n < 8$
 $n < 2$
- 8 $7a - 2 \geq 5$
 $7a \geq 7$
 $a \geq 1$
- 9 $3y + 10 \leq 4$
 $3y \leq -6$
 $y \leq -2$
- 10 $8k - 3 > -27$
 $8k > -24$
 $k > -3$
- 11 $\frac{x}{2} + 9 < 11$
 $\frac{x}{2} < 2$
 $x < 4$
- 12 $\frac{d}{6} - 4 \geq -5$
 $\frac{d}{6} \geq -1$
 $d \geq -6$
- 13 $\frac{u}{15} - 2 \leq -2$
 $\frac{u}{15} \leq 0$
 $u \leq 0$
- 14 $5p - 14 < 26$
 $5p < 40$
 $p < 8$
- 15 $18 \leq 7b + 4$
 $14 \leq 7b$
 $2 \leq b$
- 16 $-9 < 12y + 3$
 $-12 < 12y$
 $-1 < y$
- 17 $-14 \geq \frac{x}{3} - 16$
 $2 \geq \frac{x}{3}$
 $6 \geq x$
- 18 $5 < \frac{m}{8} + 5$
 $0 < \frac{m}{8}$
 $0 < m$



16
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7 11 5 13 3 10 17 6 15 1 8 12 16 2 14 18 9 4
I N T H E C L O T H E S H A N G A A

How Can You Tell Van Winkle's Trousers?

Cross out the letter pair next to each correct solution.
For each letter pair you DON'T cross out, write the upper case letter in the box containing the lower case letter.

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
T	H	E	R	E	S	A			R	I	P	I	N			T	H	E	M

- 1 $7n \geq 28$ $n \geq 4$ **2** $-7n > 28$ $n < -4$ **3** $n + 7 > 28$ $n > 21$ **4** $n - 7 < -28$ $n < -21$ **q.T** $n \leq 21$ **f.C** $n < -4$ **e.O** $n \geq 4$ **c.E** $n \geq -4$ **b.V** $n < -21$ **s.W** $n > 21$
- 5 $-2y \leq 30$ $y \geq -15$ **6** $-2y \geq -30$ $y \leq 15$ **7** $2y < -30$ $y < -15$ **8** $y - 2 \geq 30$ $y \geq 32$ **f.N** $y \leq 15$ **a.L** $y < -15$ **n.I** $y > 15$ **h.Y** $y \geq -15$ **k.G** $y \geq 32$ **b.H** $y \leq -32$
- 9 $\frac{x}{4} \leq 9$ $x \leq 36$ **10** $-\frac{x}{4} > 9$ $x < -36$ **11** $-\frac{1}{4}x < -9$ $x > 36$ **12** $-4 + x > -9$ $x > -5$ **f.S** $x < 5$ **t.D** $x > -5$ **a.S** $x \leq 36$ **s.E** $x \geq -36$ **h.K** $x < -36$ **e.B** $x > 36$
- 13 $48 \geq 16k$ $3 \geq k$ **14** $48 \geq -16k$ $-3 \leq k$ **15** $-\frac{1}{3}k > 16$ $k < -48$ **16** $-16 > -\frac{1}{3}k$ $48 < k$ **h.E** $k \geq -3$ **a.T** $k > -48$ **e.T** $k > 48$ **o.R** ~~$k < 48$~~ **k.I** $k > 3$ **j.P** ~~$k < 3$~~
- 17 $-a \geq 23$ $a \leq -23$ **18** $-a - 5 < 18$ $-a < 23$ **19** $-\frac{2}{5}a \geq 18$ $a \leq -45$ **20** $5 - a > -18$ $-a > -23$ $a < 23$ **h.A** $a \geq 23$ **d.N** ~~$a \leq 23$~~ **o.T** ~~$a \leq -45$~~ **t.M** $a \geq 45$ **j.F** ~~$a > -23$~~ **i.D** $a < 23$
- 21 The sum of x and 8 is less than 72. Find all possible values of x . $x + 8 < 72$ $x < 64$ **22** The product of x and -8 is more than 72. What are all possible values of x ? $-8x > 72$ $x < -9$ **23** The product of x and 8 is at least 72. Find all possible values of x . $8x \geq 72$ $x \geq 9$ **o.N** $x > 80$ **g.T** $x \geq 9$ **m.S** $x < 64$ **j.R** $x \geq -64$ **e.E** $x \geq -9$ **r.E** $x < -9$
- 24 The quotient of n and -7 is no less than 12. Find all possible values of n . $\frac{n}{-7} \geq 12$ $-n \leq 84$ **25** The difference of n and 7 is no more than 12. Find all possible values of n . $n - 7 \leq 12$ $n \leq 19$ **26** The opposite of n is at most 19. What are all possible values of n ? $-n \leq 19$ $n \geq -19$ **r.H** $n < -19$ **d.R** $n \geq 84$ **p.S** $n \leq 19$ **i.T** ~~$n \geq -19$~~ **m.R** ~~$n \leq 84$~~ **i.P** $n > 19$