How do you scare a snowman?

Key

To discover the answer, solve the following equations. Find your answer in the answer column. Notice the letter next to it. This letter goes in each box at the bottom of the page that contains the problem number

problem number	equation		
1	$-295 = -8m - 15$	35	A
2	$38 - 2n = 7(n + 8)$	-2	R
3	$-7(x - 4) = 28 - 6x$	0	H
4	$6 + 2(x + 2) = -x + 31$	7	E
5	$-3m + 9 = -4(3 - m)$	3	SPACE
6	$33 - 7x = -(4x + 7) - 8x$	-8	Y
7	$14 - 7p = -7(p - 2)$	ARN	U
8	$-8n - 2(6 + n) = 3(8 - 2n)$	-9	!
9	$6 + \frac{x}{2} = 17$	22	D
10	$4(1 + 5n) + 4 = 6(6 + 4n)$	-7	SPACE
11	$2x + 7(x - 8) = 7(4 + x) + 8x$	-14	R
12	$15 = 14 + \frac{n}{25}$	25	E
13	$4(-k + 8) = 2(-k + 5)$	11	R
14	$-4(y + 3) = -4y + 20$	NS	Y
15	$7(n - 7) - 7(2 + 3n) = 9 - 8n$	-12	G
16	$\frac{x + 3}{35} = -1$	-38	O
17	$-16(-3 + m) = -272$	20	A
18	$5(7x + 7) = 6(-2x - 2)$	-1	SPACE
19	$\frac{n}{2} - 3 = 2$	10	T
20	$-14 + 5n = 3 + 8(n - 4)$	5	I

answer	letter to use
3	space
22	d
-12	g
-2	r
-38	o
all real numbers	u
-1	space
-8	y
5	i
35	a
25	e
no solution	y
10	t
-9	!
11	r
0	h
20	a
-7	space
-14	r
7	e

Answer to riddle

problem number	14	16	7	5	15	4	19	18	17	10	3	1	20	11	9	13	6	12	2	8
letter	Y	O	U		G	E	T		A		H	A	I	R	D	R	Y	E	R	!

$$2x + 7(x - 8) = 7(4 - x) + 8x$$

$$2x + 7x - 56 = 28 - 7x + 8x$$

$$9x - 56 = 28 + x$$

$$8x = 84$$

$$x = 10.5$$

KEY

How do you Scare a Snowman?

① $-295 = -8m - 15$

$-280 = -8m$

$\boxed{35 = m}$

② $38 - 2n = 7(n+8)$

$38 - 2n = 7n + 56$

$38 = 9n + 56$

$-18 = 9n$

$\boxed{-2 = n}$

③ $-7(x-4) = 28 - 6x$

$-7x + 28 = 28 - 6x$

$28 = 28 + 1x$

$\boxed{0 = x}$

④ $6 + 2(x+2) = -x + 31$

$6 + 2x + 4 = -x + 31$

$2x + 10 = -x + 31$

$3x + 10 = 31$

$3x = 21$

$\boxed{x = 7}$

⑤ $-3m + 9 = -4(3 - m)$

$-3m + 9 = -12 + 4m$

$9 = -12 + 7m$

$21 = 7m$

$\boxed{3 = m}$

⑥ $33 - 7x = -(4x+7) - 8x$

$33 - 7x = -4x - 7 - 8x$

$33 - 7x = -12x - 7$

$33 + 5x = -7$

$5x = -40$

$\boxed{x = -8}$

⑦ $14 - 7p = -7(p-2)$

$14 - 7p = -7p + 14$

$\boxed{\text{All Real NUMBERS}}$

⑧ $-8n - 2(6+n) = 3(8-2n)$

$-8n - 12 - 2n = 24 - 6n$

$-10n - 12 = 24 - 6n$

$-12 = 24 + 4n$

$-36 = 4n$

$\boxed{-9 = n}$

⑨ $6 + \frac{x}{2} = 17$

$\frac{x}{2} = 11$

$\boxed{x = 22}$

(10) $4(1+5n)+4 = 6(6+4n)$

$4+20n+4 = 36+24n$

$20n+8 = 36+24n$

$8 = 36+4n$

$-28 = 4n$

$\boxed{-7 = n}$

(11) $2x+7(x-8) = 7(4+x)+8x$

$2x+7x-56 = 28+7x+8x$

$9x-56 = 28+15x$

$-56 = 28+6x$

$-84 = 6x$

$\boxed{-14 = x}$

(12) $15 = 14 + \frac{n}{25}$

$1 = \frac{n}{25}$

$\boxed{25 = n}$

(13) $4(-k+8) = 2(-k+5)$

$-4k+32 \quad -2k+10$

$32 = 2k+10$

$22 = 2k$

$\boxed{11 = k}$

(14) $-4(y+3) = -4y+20$

$-4y-12 = -4y+20$

NO possible solutions

(15) $7(n-7)-7(2+3n) = 9-8n$

$7n-49-14-21n = 9-8n$

$-14n-63 = 9-8n$

$-63 = 9+6n$

$-72 = 6n$

$\boxed{-12 = n}$

(16) $\frac{x+3}{35} = -1$

$x+3 = -35$

$\boxed{x = -38}$

(17) $-16(-3+m) = -272$

$48-16m = -272$

$-16m = -320$

$\boxed{m = 20}$

(18) $5(7x+7) = 6(-2x-2)$

$35x+35 = -12x-12$

$47x+35 = -12$

$47x = -47$

$\boxed{x = -1}$

(19) $\frac{n}{2} - 3 = 2$

$\frac{n}{2} = 5$

$\boxed{n = 10}$

(20) $-14+5n = 3+8(n-4)$

$-14+5n = 3+8n-32$

$-14+5n = 8n-29$

$-14 = 3n-29$

$15 = 3n$

$\boxed{5 = n}$