Books Never Written

- *What's That Smell?*

by

6	11.5	15	−9	17	3	13	7.6	−9	45	−11	17

- *Too Sick For School*

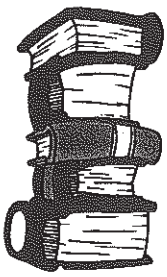
by

−5.4	15	11	17	−14	−47	−27	16	−15

- *My Talking Alarm Clock*

by

−9	32	45	−8.1	45	7	9.9	−6	21	16



Find the solution in the code. Each time it appears, write the letter of the exercise above it.

P $x + 2 = 9$

I $n + 7 = -20$

O $10 + y = 4$

E $q - 5 = 12$

G $d - 1 = -16$

D $-10 + y = 3$

H $6 + m = 27$

A $b - 40 = -25$

C $-11 + x = -5$

Y $t - 14 = -3$

M $18 + w = 7$

K $-13 + a = -60$

J $u - 7.5 = 2.4$

L $k + 8.3 = 19.8$

F $-5.2 + n = -10.6$

N $21 = y + 5$

R $-12 = h - 3$

U $7 = -38 + p$

What Do You Call It When a Royal Ruler Climbs a Mountain?

Solve, then cross out the letter above the solution. When you're finished, the answer to the title question will remain.

1. $n - 3 = 10$

2. $y + 8 = 15$

3. $9 + x = 2$

4. $d - 16 = -5$

5. $-6 + u = 22$

6. $a + 11 = -14$

7. $18 = k + 1$

8. $7 = p - 12$

9. $-3 = b + 60$

10. $11 - (-x) = 44$

11. $-5 - (-m) = 92$

12. $y - (-27) = 4$

13. In 3-way light bulbs, the highest wattage is the sum of the two lower ones. If the lowest is 60 watts, and the highest is 150 watts, what is the middle wattage?

14. It was an extremely cold day on the mountain. The temperature dropped 22° to −13° F. What was the temperature before the drop?

S	T	H	E	A	J	B	I	G	O	U	M	P	T	H	O	E	N
17	−23	88	9°F	11	13	33	−32	5°F	90 W	19	7	−25	97	75 W	−7	28	−63

15. $3 + 8 + x = 50$

16. $-7 + v + 15 = -2$

17. $10 + q - 3 = 6 \cdot 5$

18. $3 \cdot 16 = -9 + k$

19. $-8 = 12 + t - 5$

20. $43 + 7 + x - 16 = 0$

21. $d - \frac{1}{5} = \frac{3}{5}$

22. $-\frac{3}{8} + n = -\frac{7}{8}$

23. $\frac{2}{3} = b - \frac{1}{4}$

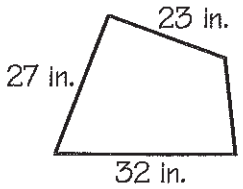
24. $x - (-30) = 100 - 9$

25. $2m + 7 - m = -40$

26. $0 = -3y - 10 + 4y$

27. The sum of the angle measures of any triangle is 180°. If one angle of a triangle measures 35° and another angle measures 72°, what is the measure of the third angle?

28. The perimeter of this quadrilateral is 100 in. What is the length of the side not given?



S	U	O	N	K	E	S	E	W	I	T	N	O	U	P	G	E	T
−34	−10	−47	18 in.	68°	$-\frac{1}{2}$	39	57	73°	15 in.	$\frac{11}{12}$	53	10	−15	$\frac{4}{5}$	$-\frac{1}{6}$	61	23

MOVING WORDS

Solve each equation in the top block and find the solution in the bottom block. Transfer the word from the top box to the corresponding bottom box. You'll get a "high five" for a high five.

THE $11x = 99$ 1	TO $-4x = 36$ 2	A $\frac{x}{5} = 8$ 3	OF $\frac{x}{-3} = 12$ 4
BECAUSE $-15x = -75$ 5	WHO $\frac{x}{-2} = -72$ 6	HAS $18x = 180$ 7	FREE $\frac{-x}{4} = 25$ 8
THE $\frac{x}{300} = -2$ 9	QUINT $45x = -360$ 10	CONGRATULATIONS $-\frac{n}{6} = 20$ 11	AIRLINE $-12n = -144$ 12
GOT $42 = 14n$ 13	PROGRAM $16 = \frac{n}{16}$ 14	TICKETS $490 = -7n$ 15	MOTHER $-50 = \frac{n}{-9}$ 16
PLANE $\frac{-n}{80} = -30$ 17	FREE $25n = -1000$ 18	QUINTUPLETS $-\frac{n}{13} = 40$ 19	FLYER $-99n = 0$ 20

$n = -120$	$x = -9$	$x = -600$	$n = 450$	$x = -36$
$n = -520$	$x = 144$	$n = 3$	$x = -100$	$n = 2400$
$n = -70$	$x = 5$	$x = 9$	$n = 12$	$x = 10$
$x = 40$	$n = -40$	$x = -8$	$n = 0$	$n = 256$

Famous Honolulu Keyboarding School

Cross out the letter pair next to each correct solution. For each letter pair that you DON'T cross out, write the uppercase letter in the box containing the lowercase letter.

1 $-5y = 80$ **2** $-36 = -18d$ **3** $9x - 6x = 36$ **4** $49 \cdot 2 = 3a - 10a$

5 $\frac{w}{4} = -16$ **6** $\frac{1}{4}b = 16$ **7** $-\frac{1}{9}d = 12$ **8** $-3 = \frac{-e}{75}$

9 Ken is thinking of a number. The product of the number and 7 is –350. Find Ken's number.

10 Barbie has a favorite number. The quotient of her number and –4 is –90. What is Barbie's favorite number?

Answers 1-10 **e • F** –14 **a • S** –16 **d • R** 225 **c • H** 58 **b • J** 64 **n • Y** –9
m • V –50 **i • A** 290 **j • T** –108 **g • O** 12 **f • D** 360 **l • N** 2 **h • P** –64

11 $2.5x = -60$ **12** $-\frac{1}{5}n = -14$ **13** $70.5 = 9.4p$ **14** $-20 = \frac{1}{16}y$

15 $\frac{2}{3}k = 10$ **16** $\frac{3}{8}u = -15$ **17** $\frac{7}{2}a = 35$ **18** $-\frac{5}{16}t = -45$

19 Argyle sells computers. He keeps one eighth of his sales as a commission. How much must he sell to earn $500?

20 The area of a TV screen is 576 square inches. If the width of the screen is 32 in., what is the height?

Answers 11-20 **a • S** –40 **j • C** 70 **e • C** –50 **h • A** 10 **b • R** 18 in. **m • E** $3600
d • A 24 in. **f • L** –320 **k • T** 144 **l • G** 15 **n • E** –24 **g • C** 7.5 **o • N** $4000

21 $-0.3m = -12$ **22** $36 = -\frac{9}{5}d$ **23** $x - 5x = 8^2$ **24** $\frac{1}{6}y = \frac{1}{3}$

25 $-\frac{2}{5}w = -\frac{4}{15}$ **26** $\frac{1}{2} = 8m$ **27** $\frac{4}{3}b = -\frac{20}{3}$ **28** $x - \frac{9}{10}x = 7$

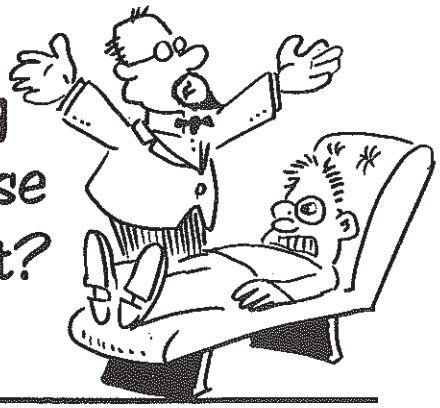
29 Lisa is 14 years old. Her age is two sevenths of her father's age. How old is Lisa's father?

30 Eon runs a music store. He sells CD's for 1.6 times what he pays for them. If Eon sells a CD for $15.20, how much did he pay for it?

Answers 21-30 **h • O** 49 **b • W** $\frac{3}{8}$ **j • R** –16 **c • T** 40 **l • D** 2 **g • E** $9.50
k • I –20 **a • N** $\frac{2}{3}$ **o • S** –5 **f • H** $\frac{1}{16}$ **f • K** 52 **b • S** 70 **l • K** $8.80

a	b	c	d	e	f	g	h	i	j	k	l	m	n	o

What Did Dr. Freud Say To the Guy Who Thought He Was Mickey Mouse One Day and Donald Duck the Next?



Solve the equation, then find your solution in the corresponding answer boxes. Write the letter of the exercise in the box containing the answer.

A $8 + x = 40$

I $\frac{a}{5} = -16$

O $y - 17 = -4$

E $-9b = -99$

G $-3 = k + 75$

A $-\frac{1}{8}w = -13$

N $-11 + m = 50$

U $65 = 2x - 7x$

H $10 - (-d) = 3$

Y $\frac{4}{5}b = 12$

R $15 + u - 22 = 9^2$

V $9n = \frac{1}{4}$

15	13	−13	$\frac{1}{12}$	32	88	11	75	−7	104	$\frac{1}{36}$	−80	61	−78

S $-5 = \frac{-a}{36}$

E $p - (-1) = (-7)^2$

L $30 = -12y$

I $w - \frac{2}{9} = \frac{5}{9}$

S $-\frac{5}{8}x = 30$

Y $-2 \cdot 7 = -3 + t + 24$

E $-4.5q = -32.4$

S $-4c - 9.6 + 5c = 0$

L $-\frac{3}{4}m = -\frac{9}{16}$

D $18 = b + 5^3$

P $n - \frac{1}{3} = \frac{2}{5}$

N $8x - 9x = \frac{150}{10}$

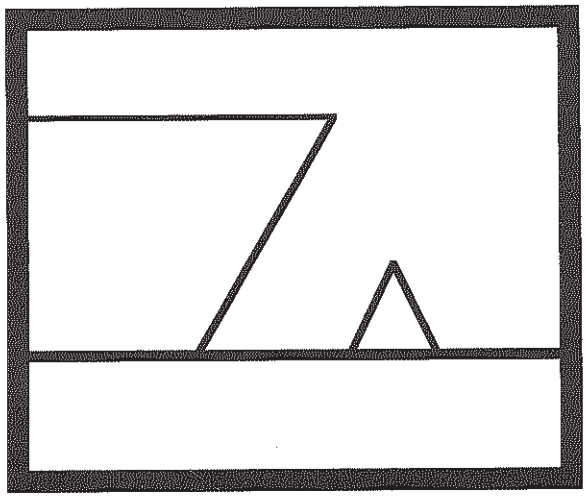
$\frac{5}{8}$	−107	$\frac{7}{9}$	9.6	−15	48	−35	−92	180	$\frac{11}{15}$	7.2	$\frac{3}{4}$	−2.5	−48

WHAT IS THE TITLE OF THIS PICTURE?

Find each solution in the coded title. Each time it appears, write the letter of the exercise above it.

CODED TITLE:

135	−65	−2	−98	−9	48	−14	−14	−2	7	−2	−8	105
−81	60	60	−17	104	48	−81	−3	−72	−81	60	5	135	48	7	−3
48	122	11	−14	60	144	−8	−2	−8	105	43	144	−2	−81	−12	−65



V $5x + 8 = 43$

A $2n - 15 = 81$

C $-9a + 4 = 112$

N $-3 + 10y = -83$

O $\frac{w}{4} + 7 = 22$

T $\frac{x}{9} - 1 = -10$

L $\frac{d}{-8} + 37 = 24$

P $11 - \frac{k}{2} = 60$

E $-5 - 16y = 43$

G $\frac{-u}{7} + 2 = -13$

D $15 - 8m = -73$

S $\frac{1}{3}x + 10 = 55$

R $7t - 18 = -116$

H $-\frac{1}{5}q - 4 = 9$

I $72 + 36n = 0$

W $7 - \frac{1}{16}x = -2$

Why Did the Snorgs Name Their Only Daughter "Margarine"?

Solve the equation. Write the letter of the answer in the box containing the exercise number. Then rearrange each set of letters to make a word.

1. $2x + 3 = 12$
2. $6y - 5 = 11$
3. $-\frac{1}{8}d + 7 = 16$
4. $11 - \frac{a}{4} = 4$
5. $\frac{2}{3}k + 8 = 18$
6. $\frac{5}{2}x - 1 = -31$
7. Karma's age is 2 years less than three eighths of her father's age. If Karma is 13 years old, how old is her father?
8. $\frac{2}{3}w = 7$
9. $\frac{3}{4}x - 2 = 8$
10. $\frac{7}{2}m + 1 = -10$
11. $4 - \frac{8}{3}q = 19$
12. $-78 = 10b - 3$
13. $20 + \frac{4}{5}y = 8$
14. Last week Kiwi filled his 16-gallon tank with gas. On the average, his car burns 0.03 gallon of gas per mile. If Kiwi has 4 gallons left in his tank, how many miles has he driven?
15. $\frac{11}{4}p + 3 = 5$
16. $\frac{x}{18} + 8 = -2$
17. $6 - \frac{3}{7}h = 11$
18. $-4 = 12t - 13$
19. $80 + \frac{5}{16}y = 100$
20. $2n - 3n = \frac{2}{9}$
21. The drawing shows a stack of paper cups. The cups are 10 cm high. Each cup after the first adds 0.8 cm to the height of the stack. How many cups will fit in a dispenser that is 30 cm high?

Answers 1-7

L -10	D 40	H $2\frac{2}{3}$
O 15	T 28	R 36
E $4\frac{1}{2}$	T -12	Y -72

Answers 8-14

H $-5\frac{5}{8}$	S 360	N -15
N $10\frac{1}{2}$	V $-7\frac{1}{2}$	E $13\frac{1}{3}$
Y 400	A $-3\frac{1}{7}$	O -9

Answers 14-21

R $-\frac{2}{9}$	A $\frac{8}{11}$	U -180
N $1\frac{1}{8}$	E 64	H 26
B $\frac{3}{4}$	S 36	T $-11\frac{2}{3}$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Rearrange each set of letters to make a word. Write the word in the set of boxes below.

Did You Hear About . . .

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	???

Solve each equation or problem. Write the word next to the correct answer in the box that contains the exercise number.

Answers 1-9

- $-\frac{2}{5}$ • WHO
- −92 • TRIED
- $-3\frac{1}{3}$ • BRAIN
- 32 • FROM
- $7\frac{1}{2}$ • THE
- $-2\frac{5}{6}$ • SLEEP
- −100 • WOKE
- 28 • DREAMING
- $-1\frac{1}{4}$ • GUY
- $5\frac{2}{3}$ • HIS
- $4\frac{1}{4}$ • SURGERY
- 75 • UP
- $3\frac{1}{2}$ • TRANSPLANT

1. $2n + 5 = 20$
2. $8y - 3 = -13$
3. $12 - 5b = 14$
4. $\frac{1}{4}m + 9 = -16$
5. $2 - \frac{x}{15} = -3$
6. $\frac{5}{8}a - 27 = -7$
7. $7x - 11 - 4x = 6$
8. $32 = y - 8 - 13y$
9. $-10 = -12 + \frac{4}{7}n$
10. $4 \cdot 9 = 30 - \frac{k}{16}$
11. $\frac{d + 8}{3} = -14$
12. $-\frac{1}{5}p + \frac{9}{5}p + 6 = 30$
13. $\frac{4m - 7}{2} = 18$
14. $10 + x - \frac{1}{3}x = 0$
15. $5 = \frac{15 - 24a}{6}$

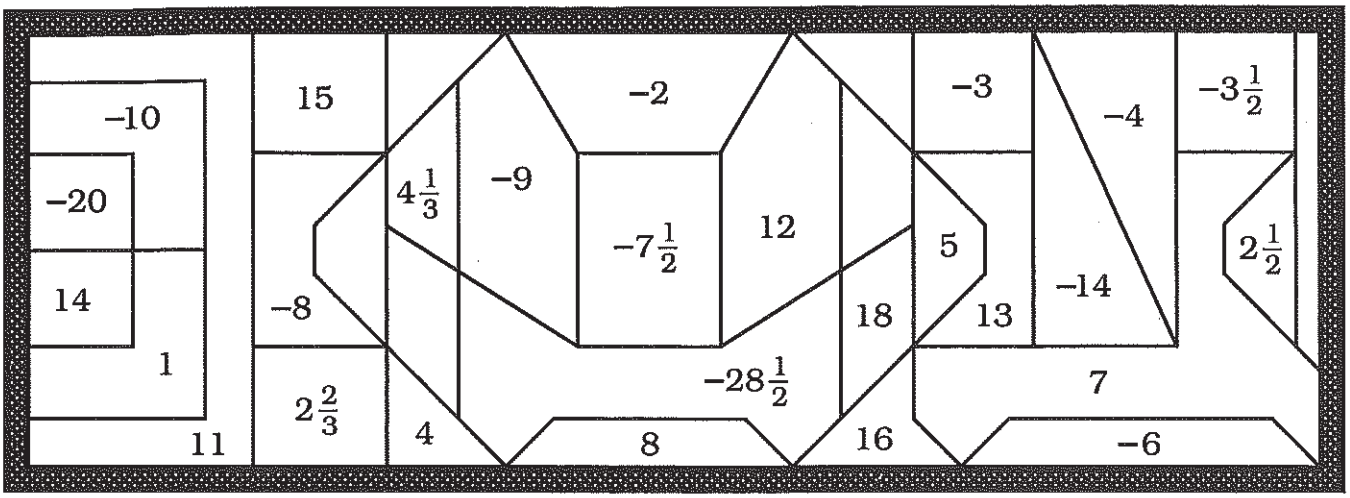
16. So far, 37 miles of a new highway have been completed. This is one mile less than two thirds of the entire length. How long will the new highway be when complete?

17. Buck rented a truck for $39.95 plus $0.32 per mile. Before returning the truck, he filled the tank with gasoline, which cost $9.80. If the total cost was $70.23, how far was the truck driven?

Answers 10-17

- −90 • MISSING
- $10\frac{3}{4}$ • HE
- $-\frac{5}{8}$ • CHANGED
- $-\frac{1}{4}$ • DECIDED
- −96 • OPERATION
- 64 mi • MIND
- −48 • WITH
- 15 • SAID
- 62 mi • INTO
- −15 • HAD
- 57 mi • HIS
- 72 mi • SKULL
- −50 • AND

WORLD'S MOST EXPENSIVE COLLEGE



Shade in the area containing each solution.

1. $5x + 2(x + 4) = 64$

2. $9(y - 2) + 4 = 31$

3. $7 + 4(2a + 15) = -13$

4. $6(n - 5) - 11n = 0$

5. $20 = 8 + 3(12 + 4x)$

6. $-2(w - 7) + 10w = 34$

7. $9y - 4(y + 5) = 40$

8. $10 - 3(m - 2) = 8$

9. $16d - (4 - 5d) = -67$

10. $7(6x - 1) + x = 36$

11. $11 - 2(8 + 3p) = 7^2$

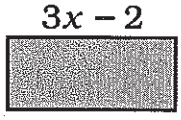
12. $\frac{1}{4}(5b + 11) = 19$

13. $\frac{2}{7}(4m - 18) = 12$

14. $75 = 3(-10t - 3) + 6t$

15. $-\frac{5}{6}(9 + 2x) = 40$

16. Write an equation and solve for x if the area of this rectangle is 133 square units.



17. The Big Screamer Coaster carries 92 people altogether. Some of its cars carry 4 passengers, and the rest carry 6 passengers. There are three less 6-passenger cars than 4-passenger cars. How many 4-passenger cars are there?

What Do You Call Someone Who Can't Turn Pancakes?

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

1 $9y + 4 = 2y + 25$

2 $5n - 2 = n + 18$

3 $11 + 8q = 3q - 19$

4 $-3 - 10x = 25 + 4x$

5 $15a = 6a - 90$

6 $24 - 5d = d$

7 Xavier is thinking of a number. Nine more than four times the number is the same as fifteen less than twice the number. What is Xavier's number?

8 $2 + 11b = 8b + 15$

9 $7m + 32 = 12 - m$

10 $16 - 5y = 1 - 4y$

11 $2x - 8x + 1 = 9 - 10x$

12 $-3t - 8 + 7t = 34 + 9t - 2$

13 $2a + 3a + 4a = 5a - 18$

14 Yvonne is thinking of a number. Fifty, decreased by three times the number, is the same as seven times the number, increased by 80. What is Yvonne's number?

15 $5(x + 4) = 7x - 26$

16 $20 - 9w = 4(15 - w)$

17 $2(11 + 3n) = 12n$

18 $10 - 4(p + 7) = 2(1 - p)$

19 $11x = 8x - 3(5 - 2x)$

20 $9 - 6(4u - 1) = u + 15$

21 Zabato is thinking of a number. Three times the sum of the number and ten is the same as eight times the number. What is Zabato's number?

e • N	4
a • P	−6
f • I	−1
d • R	−12
l • F	3
b • A	7
i • E	−10
g • S	5
j • L	−9
k • U	−2

c • N	15
k • O	−6
e • H	$-2\frac{1}{2}$
m • T	−3
g • P	$-3\frac{3}{4}$
a • R	−8
l • S	$4\frac{1}{3}$
h • D	2
d • F	11
i • L	$-4\frac{1}{2}$

e • T	−8
l • V	6
h • S	−10
l • P	18
m • E	$3\frac{2}{3}$
e • L	−9
c • N	0
i • G	23
a • P	5
i • F	$6\frac{1}{3}$

Why Do Cowboys Have So Much Trouble With Math?

Solve each equation or problem and find your solution in the answer column.
Write the letter of the answer in each box that contains the exercise number.
If the answer has a ●, shade in the box instead of writing a letter in it.

(1) $8x + 15 = 3x - 20$

(2) $9n - 2 = 7n + 50$

(3) $18 - 5y = y + 4$

(4) $-7a - 10 = 20 - 3a$

(5) $11d = 81 - 16d$

(6) $-22 - x = 5 + 6x + 9$

(7) $10b - 25 - 3b = 4b - 1$

(8) $33 + 15w = 3w - w + 4w$

(9) The Sun Spa charges annual dues of $125 plus $10 per hour to use the facilities. The Moon Spa charges annual dues of $230 plus $7 per hour to use the facilities. For what number of hours would the two spas charge the same total amount?

(10) $9(m - 2) = m + 40$

(11) $3(2p + 7) = 15(p - 4)$

(12) $5x + 2(11 - 4x) = 82 + x$

(13) $16 - 5(3t - 4) = 8(-2t + 11)$

(14) $7(7c + 1) - 4c = 13(3c - 2)$

(15) $12(5 + 2y) = 4y - (6 - 9y)$

(16) $3q - 16q = 7 + 2(-8q - 3)$

(17) $14 - 3(5t - 12) = 1 - (20t + 1)$

(18) Simon says: "Five times my age 4 years ago is the same as 3 times my age in 2 years." How old is Simon now?

Answers 1-9

A	8
I	$-7\frac{1}{2}$
K	38
●	$-5\frac{1}{7}$
O	-7
P	$-3\frac{2}{3}$
T	3
E	$2\frac{1}{3}$
D	35
C	$-4\frac{1}{4}$
S	26
J	5

Answers 10-18

M	18
L	$-5\frac{1}{2}$
N	13
G	9
R	-10
B	$-7\frac{3}{4}$
●	52
W	$7\frac{1}{4}$
F	12
H	$\frac{1}{3}$
Y	-15
U	-6

5	16	3	12	6	7	14	10	7	12	2	13	17	1	15	18	9	6	5	16	4	18	11	2	13	15	8

Cow Conundrums

1. How Did Farmer John Find His Missing Cow?

-6	$12\frac{1}{2}$	$\frac{7}{12}$	11	-10	$4\frac{2}{3}$	$-4\frac{1}{2}$	11	$16\frac{1}{3}$	-10	9.2	$\frac{1}{5}$	$16\frac{1}{3}$	$-9\frac{1}{3}$	-30

2. How Did the Cow Get Over the Block of Hay?

54	-6	$12\frac{1}{2}$	$-2\frac{1}{3}$	4	-12	7.4	-14	$12\frac{1}{2}$	$\frac{1}{5}$	14	$\frac{23}{24}$	$4\frac{2}{3}$	5	$12\frac{1}{2}$

Solve each equation and find your solution in the code. Each time the solution appears, write the letter of the exercise above it.

P. $-5 + n + 16 = -3$

O. $4x - x = 7^2$

S. $11 + \frac{a}{6} = 20$

A. $4 = 18 - 3w$

N. $\frac{2}{5}b + 1 = -11$

E. $-9 + 2(x + 6) = 28$

U. $7y - 4(3y - 5) = 80$

C. $10k + 3 = 6k - 15$

B. $-\frac{5}{8} + m = \frac{1}{3}$

W. $7 = -\frac{3}{4}x$

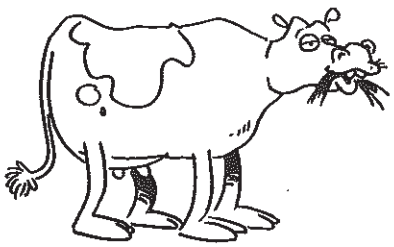
J. $50 = -2 + 13q$

H. $5 - \frac{9}{2}d = 32$

L. $\frac{7a + 1}{2} = 18$

R. $4(2y + 9) = 3y - 14$

M. $2.5n - (-8.2) = 26.7$



D. $-\frac{2}{3}(5p - 16) = 10$

T. $11 - 2(3m - 10) = 5(4 - m)$