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$\qquad$ Period $\qquad$
Why Did the Cow Keep Jumping Over the Barrel?


Translate each phrase below into an algebraic expression and find your answer in the corresponding answer column. Write the letter of that exercise in the box that contains the number of the answer.

| E | 3 times a number | 18 | $x+3$ | S | 5 times a number, increased by 8 |  | $8(x+5)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 3 more than a number | 15 | $3 x-8$ | A | 5 times the sum of a number and 8 |  | $8(2 x+5)$ |
| S | 3 decreased by a number | 19 | $x-3$ | H | 5 more than 8 times a number | 2 | $8 x+5$ |
| R | 3 less than a number | 12 | $3 x+8$ | 0 | 8 times the sum of a number and 5 | 13 | $2(5 x+8)$ |
| A | one third of a number | 3 | $3 x$ | C | Twice the sum of 5 times a number and 8 | 6 | $5 x+8$ |
| I | 8 more than 3 times a number | 25 | $3-x$ | T | 2 more than five eighths of a number |  | $5(x+8)$ |
| N | 8 less than 3 times a number | 5 | x/3 | W | 8 times the sum of twice a number and 5 |  | $5 / 8 x+2$ |
| A | 7 less than 4 times a number | 1 | $7-4 x$ | T | 9 meters higher than altitude x | 7 | $x+15$ |
| S | 7 decreased by 4 times a number | 16 | $2 \mathrm{x}-9$ | F | 15 meters per second slower than speed x |  | $x+9$ |
| G | 9 less than twice a number | 14 | $7 x+4$ | P | 15 degrees hotter than temperature x |  | $4 x-9$ |
| N | 9 decreased by twice a number | 9 | $4 \mathrm{x}-7$ | 0 | 9 meters shorter than twice length x |  | $2 \mathrm{x}-9$ |
| 0 | 9 less than half a number | 8 | $7 x+4 x$ | C | 9 years older than twice age x |  | $2 x+9$ |
| I | 7 times a number, increased by 4 | 24 | $9-2 x$ | H | \$9 cheaper than 4 times price x |  | $x-15$ |
| R | 7 times a number, increased by 4 times the number | 27 | $x / 2-9$ | M | 9 centimeters less than three fourths of length $x$ |  | $3 / 4 x-9$ |

1. Which algebraic expression represents 15 less than $x$ divided by 9 ?
A. $\frac{x}{9}-15$
B. $9 x-15$
C. $15-\frac{x}{9}$
D. $15-9 x$
2. Translate into an algebraic equation: Two less than the product of five and $\mathbf{x}$ is thirteen.
A. $5(x-2)=13$
C. $2-5 x=13$
B. $5 x+2=13$
D. $5 x-2=13$
3. Raquel earns $\$ 150$ per week at Forever 21 plus $15 \%$ commission on her total sales. Which of the following could represent an expression for Raquel's total sales?
A. $150+0.15 x$
B. $150+15 x$
C. $0.15+150 x$
D. $15+150 x$
4. The perimeter of a rectangular wooden deck is 90 feet. The deck's length, $I$, is 5 feet less than 4 times its width, w. Which expression represents the length of the deck?
A. $L=5 w-4$
B. $L=5 w+4$
C. $L=4 w-5$
D. $L=4 w+5$
5. Which verbal expression can be represented by $2(x-5)$ ?
A. 5 less than 2 times $x$
C. 2 multiplied by $x$ less than 5
B. twice the difference of $x$ and 5
D. the product of 2 and $x$, decreased by 5
