Matching Expressions to their Context

1. Choose the number sentence that means "2 more than 2 times a number."

   A. $2 + 2n$ B. $2/2n$ C. $2(2n)$ D. $2 - 2n$

2. Easha has 3 less than 5 times the number of quarters (I) that Isabelle has. Which expression shows the number of quarters Easha has?

   A. $3I - 5$ B. $5I - 3$ C. $5 - 3I$ D. $3 - 5I$

3. Pat cleans windows during the summer. He charges $50 per house and an additional $5 per window. Which expression represents how much Pat would charge to clean x windows at 1 house?

   A. $50x + 5$ B. $55 + x$ C. $50 + 5x$ D. $50 - \dfrac{x}{5}$

4. Ada charges a flat rate of $75 for staining a deck plus an additional $6 for each hour she works. Which expression below *best* describes the total amount of money Ada charges for staining a deck in x hours?

   A. $75 + 6x$ B. $75 \times 6x$ C. $75x + 6$ D. $81x$

5. Kelly ran 3 miles fewer than twice as far as Jim. Jim ran m miles. Which expression represents how far Kelly ran?

   A. $3 - 2m$ B. $2m - 3$ C. $3m - 2$ D. $2(m - 3)$

6. A hot air balloon lifted off from an elevation of 425 feet above sea level. The balloon rose at a constant rate of 55 feet per minute. Which expression represents the elevation above sea level of the hot air balloon after t minutes?

   A. $55t + 425$ B. $55t$ C. $480t$ D. $425t + 55$

7. Lindsay has eight more stickers than Whitney.

   W represents the number of stickers Whitney has.

   Which expression represents the number of stickers Lindsay has?

   A. $W - 8$ B. $W + 8$ C. $W \times 8$ D. $W \div 8$

8. At a local bookstore, books that normally cost b dollars are on sale for 10 dollars off the normal price. How many dollars does it cost to buy 3 books on sale?

   A. $3b - 10$ B. $3b + 10$ C. $3(b - 10)$ D. $3(b + 10)$

9. The Sojourn family went on a vacation. They started with $2000. If they spent $150 each day, which expression represents how much money they had after x days?

   A. $1850x$ B. $2000 - 150x$

   C. $150x$ D. $2000 + 150x$

10. Rita is moving a pile of 120 rocks by hand to build a rock wall. If h represents the number of rocks that she can carry in one load, which expression represents the total number of loads needed to move the entire pile of rocks?

    A. $120 + h$ B. $120h$ C. $120 - h$ D. $\frac{120}{h}$

11. Joe just bought M baseball trading cards. He sold 6 to his friend. Which expression represents how many new trading cards he has left?

    A. $6 - M$ B. $6M$ C. $M + 6$ D. $M - 6$

12. Kyle and Becky were selling candy bars for the student council fundraiser. Kyle sold twice as many candy bars as Becky. If Becky sold x number of candy bars, which expression shows the total number of candy bars Kyle and Becky sold?
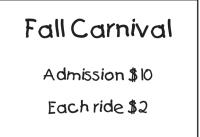
    A. x^2 B. $x + 2$ C. $x + 2x$ D. $x + x$

13. Stan has 100 candy bars. If he eats 5 candy bars per day, which of the following expressions can be used to find how many candy bars Stan has left after d days?

    A. $100 + 5 - d$ B. $100d - 5$

    C. $100 - 5d$ D. $(100 - d)5$

14. Marla read a total of 4 books for a class. There were 3 books that each had the same number of pages, x, and 1 book that had 87 pages. Which expression represents the total number of pages that Marla read for her class?

    A. $3x + 87$ B. $3(x + 87)$

    C. $3(87) + x$ D. $3(87) + 3x$

15. The poster below shows the costs at a fall carnival.

Fall Carnival

Admission $10

Each ride $2

Which of the following expressions represents the total cost, in dollars, of 1 admission and r rides, for any number of rides?

A. $10 + 2r$ B. $10(r + 2)$

C. $10 - 2r$ D. $10 + r + 2$

16. Joelyn has decided to save $12 a week to buy a stereo system costing $125. Which expression shows how much she will still have to save after n weeks?

A. $125 + 12n$ B. $125 - 12n$

C. $(125 + 12)n$ D. $(125 - 12)n$

17. Four people have dinner together at a restaurant. They pay equal portions of the cost, in dollars, of the dinner, d, and the $10 tip. Which expression represents the amount of money each person pays?

A. $d \div 4 + 10$ B. $4 \div (d + 10)$

C. $d + 10 \div 4$ D. $(d + 10) \div 4$

18. Which can be represented by the expression $17 - 2x$?

A. 17 less than twice a number x

B. the difference between 17 and twice a number x

C. a number x squared, subtracted from 17

D. 17 less than a number x squared

19. John reads 20 pages of a book each night. The expression $20x$ can be used to find the total number of pages John has read.

What does x represent in this expression?

A. number of pages in the book

B. number of nights he has read

C. total number of pages he has read

D. number of pages he has read each night

20. Jan and Cathy bought school supplies together. They bought a total of 25 pencils and n notebooks. The price of each pencil was 10¢ and the price of each notebook was 75¢. Jan and Cathy split the total cost in half. Which expression shows how much Jan will owe?

A. $\dfrac{(25 \cdot 0.10 + n \cdot 0.75)}{2}$ B. $(25 \cdot 0.10) + \dfrac{n \cdot 0.75}{2}$

C. $\dfrac{(25 \cdot 0.10)}{2} + n(0.75)$ D. $25 \cdot 0.10 + n \cdot 0.75$