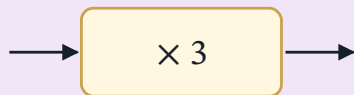


WORK OUT $2N + 3$ WHEN $N = 4$

- 1 Write the expression with the value shown: $2n + 3$ when $n = 4$
- 2 Replace the letter n with 4 to get 2 times 4 + 3
- 3 Do the multiplication first: $8 + 3$
- 4 Add the numbers: 11

WARM-UP

Draw three game machines and show the inputs and outputs.



1. Mark input $n = 10$ and output 23 on the first machine
2. Mark input $n = 3$ and output 13 on the second machine
3. Mark input $x = 7$ and output 9 on the third machine

PRACTICE

- 1 In the board game the points rule is $2n + 3$. What is the score when $n = 8$?
- 2 In the bonus round the rule changes to $6n + 1$. What is the score when $n = 6$?
- 3 The card game gives points by $4n + 1$. Find the points when $n = 3$.
- 4 In the playground game the score is $2x - 5$. What do you get when $x = 7$?
- 5 The play points machine uses $3y + 2$. Work out the total when $y = 5$.
- 6 For the team game the rule is $5z - 4$. What score when $z = 8$?

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- | | |
|---|--|
| a. Putting the same value in for a letter gives the same result in one expression. ☐ | c. You multiply before adding when substituting into $2n + 3$. ☐ |
| b. Putting a different value in for the letter changes the result of the expression. ☐ | d. Substituting $n = 4$ into $2n + 3$ gives the same answer as substituting $n = 6$. ☐ |