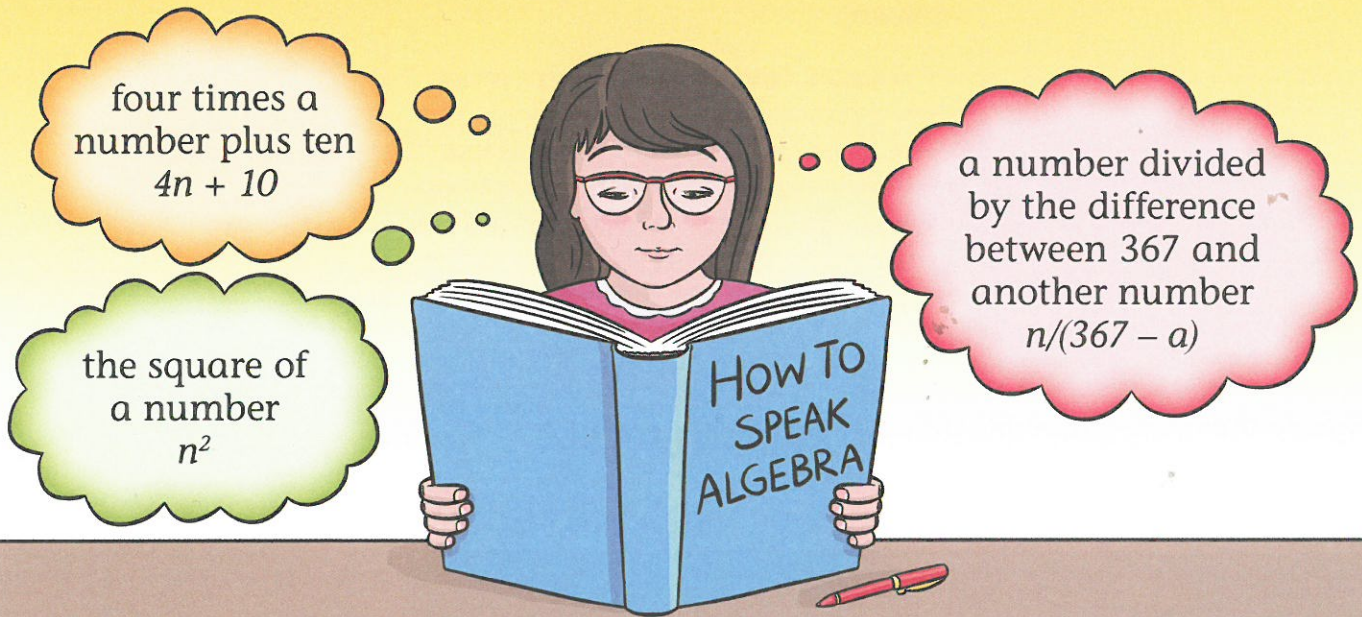


Algebra

Skill: Use variables in algebraic expressions and equations

An algebraic expression includes numbers, variables, and operation signs that represent mathematical relationships.



- 1** Lay out the mats and sort the cards by size into two groups: expressions and answers.
- 2** Read the phrase in each row on the mats.
- 3** Find the card that shows the algebraic expression for the phrase and place it in the **orange** box.
- 4** Use the **n** = number to replace the variable in the expression and then calculate the answer.
- 5** Find the card that shows the answer and place it in the **blue** square.
- 6** Complete the written practice activity.

Algebra

1

nine more than n

expression

$n = 99$

answer

2

eighteen less than n

expression

$n = 260$

answer

3

five times n

expression

$n = 24$

answer

4

one-half of n

expression

$n = 316$

answer

5

one-third n times 4

expression

$n = 123$

answer

6

the sum of n and 8 minus 10

expression

$n = 112$

answer

Algebra

7

twelve times 7 minus n

expression

$n = 57$

answer

8

forty-four less than the product of 10 and n

expression

$n = 31$

answer

9

n divided by 6 times 1,000

expression

$n = 60$

answer

10

fifty-six divided by n plus 173

expression

$n = 2$

answer

11

112 more than n times nineteen

expression

$n = 18$

answer

12

$\frac{7}{8}n$ less than 525

expression

$n = 96$

answer

$n + 9$	$n - 18$	$5n$	
$\frac{1}{2}n$	$\frac{1}{3}n \times 4$	$(n + 8) - 10$	
$12 \times 7 - n$	$(10 \times n) - 44$	$n \div 6 \times 1,000$	
$56 \div n + 173$	$112 + n \times 19$	$525 - \frac{7}{8}n$	
108	242	120	158
110	27	266	10,000
454	441	164	201

Algebra

Look at the mats. Write each expression using the variable below and solve the equation.

1. $n = 36$ $36 + 9 = 45$ 7. $n = 82$ _____

2. $n = 94$ _____ 8. $n = 163$ _____

3. $n = 70$ _____ 9. $n = 240$ _____

4. $n = 550$ _____ 10. $n = 8$ _____

5. $n = 27$ _____ 11. $n = 101$ _____

6. $n = 498$ _____ 12. $n = 32$ _____

Number Tricks

The Answer Is Always 3!

- Think of a number.
- Add 5.
- Multiply by 2.
- Subtract 4.
- Divide by 2.
- Subtract your number.
- Is the answer 3?

Birthday Trick

- Multiply the number of your birth month by 4.
- Add 13.
- Multiply by 25.
- Subtract 200.
- Add your birth date.
- Double the number.
- Subtract 40.
- Multiply by 50.
- Add the last two digits of your birth year.
- Subtract 10,500.
- The answer should be your birthday—
month/day/year (xx/xx/xx).