

Grade 6 - Writing and Reading Algebraic Expressions - Test

Common Core 6.EE.A.2a, 6.EE.A.2b · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers writing expressions from words, identifying terms and coefficients, reading expressions, and modeling situations (Common Core 6.EE.A.2a and 6.EE.A.2b). Show your work.

About this test

- Grade: Grade 6
- Chapter: Writing and Reading Algebraic Expressions
- Standards: 6.EE.A.2a, 6.EE.A.2b
- Time: 45 minutes
- Total: 20 points

Question 1 - Write expressions [2 pts]

Phrase	Expression
sum of 9 and n	?
x divided by 6	?

Translate each phrase.

- the sum of 9 and a number n
- a number x divided by 6

Question 2 - Write expressions with less than [2 pts]

- 12 less than a number p
- three times the difference of w and 4

Question 3 - Parts of an expression [2 pts]

Part	Name
6y	?
6	?
9	?

Name each part.

For the expression $6y+9$, name the terms, the coefficient, and the constant.

Question 4 - Read an expression [2 pts]

Write $4(n+7)$ in words and name its two factors.

Question 5 - Story to expression [2 pts]

Money

m

Left

m - 8

8

Mei spends 8 dollars.

Mei has m dollars and spends 8 dollars. Write an expression for the money she has left. Find the amount left if m is 25.

Question 6 - Groups [2 pts]

A box holds 12 pencils. Write an expression for the number of pencils in b boxes, and then in b boxes plus 5 loose pencils.

Question 7 - Two variables [2 pts]

Snacks at the game cost \$4 for a pretzel and \$3 for a drink. Write an expression for the cost of p pretzels and d drinks, then find the cost of 2 pretzels and 5 drinks.

Question 8 - Compare expressions [3 pts]

Explain the difference between $2n+5$ and $2(n+5)$. Find the value of each when $n=3$.

Question 9 - Build an expression [3 pts]

A gym charges a \$20 sign-up fee and \$15 per month. Write an expression for the cost of m months. Then find the cost for 6 months and tell what each part of the expression means.