

Numerical and Algebraic Expressions: math test solutions, Grade 6 – download the PDF

Test solutions with the detailed point scale. Add up your points and spot what to review.

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Exponents and order of operations

/ 4 pts

- a. $5 \cdot 5 \cdot 5 = 125$. (1 pt)
- b. $40 - 16 = 24$. (1 pt)
- c. $3 \cdot 6^2 = 3 \cdot 36 = 108$. (1 pt)
- d. $100 \div 25 + 9 = 4 + 9 = 13$. (1 pt)

2 Writing expressions

/ 4 pts

- a. $x - 12$. (1 pt)
- b. $6(y + 2)$. (1 pt)
- c. $9t + 5$. (1 pt)
- d. $\frac{n}{4} + 1$. (1 pt)

3 Evaluating expressions

/ 3 pts

- a. $5 \cdot 4 - 2 = 20 - 2 = 18$. (1 pt)
- b. $16 + 6 = 22$. (1 pt)
- c. $2 \cdot 6 = 12$. (1 pt)

4 Parts of an expression

/ 2 pts

- a. The terms are $8m$, $5n$, and 11 . (1 pt)
- b. The coefficient of n is 5 and the constant is 11. (1 pt)

5 Distributive property and equivalence

/ 4 pts

- a. $5 \cdot 2x + 5 \cdot 3 = 10x + 15$. (1 pt)
- b. The GCF of 16 and 20 is 4, so $16y + 20 = 4(4y + 5)$. (1 pt)
- c. For $x = 2$: $3(6) = 18$ and $3(2) + 4 = 10$. (1 pt) The values differ, so the expressions are not equivalent; the 3 must also multiply the 4. (1 pt)

6 Simplifying and a rectangle

/ 3 pts

- a. $(9a + 2a) + (4 - 3) = 11a + 1$. (1 pt)
- b. Perimeter = $2(x + 6) + 2 \cdot 4$ (1 pt) = $2x + 12 + 8 = 2x + 20$ inches. (1 pt)



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