

Expressions and Patterns: math test solutions, Grade 5 – 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 Evaluate

/ 4 pts

- a. $56 - 24 = 32$ (1 pt)
- b. $8 + 12 = 20$ (1 pt)
- c. $18 \div 3 = 6$ (1 pt)
- d. $9 + 6 = 15$; $30 - 15 = 15$; $4 \times 15 = 60$ (1 pt)

2 Writing expressions

/ 3 pts

- a. $2 \times (12 + 18) = 2 \times 30 = 60$ (1 pt)
- b. $50 - 6 \times 4 = 50 - 24 = 26$ (1 pt)
- c. $5 \times 8 - 3 = 40 - 3 = 37$. There are 37 good pencils. (1 pt)

3 Interpreting

/ 3 pts

- a. It is 4 times as large. (1 pt)
- b. $210 + 90$ is larger, because dividing by 3 makes the sum one third as large. (1 pt)
- c. $2 \times (50 - 14) = 2 \times 36 = 72$ (1 pt)

4 Two patterns

/ 4 pts

- a. A: 0, 6, 12, 18, 24. B: 0, 3, 6, 9, 12. (2 pts)
- b. Each term of A is twice the matching term of B. (1 pt)
- c. A adds 6, which is 2×3 , so it grows twice as fast. (1 pt)

5 Ordered pairs

/ 3 pts

- a. A: 0, 4, 8, 12. B: 0, 12, 24, 36. Pairs: (0, 0), (4, 12), (8, 24), (12, 36). (2 pts)
- b. B is 3 times as large as A. (1 pt)

6 Reading a graph

/ 3 pts

- a. $P(1, 4)$, $Q(2, 8)$, $R(3, 12)$. (1 pt)
- b. Each y-value is 4 times its x-value. (1 pt)
- c. $y = 4 \times 5 = 20$, so the point is (5, 20). (1 pt)



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