

Expressions and Patterns: math test, Grade 5 – download the PDF

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

1 Evaluate

/ 4 pts

- a. $56 - 8 \times 3$
- b. $72 \div 9 + 6 \times 2$
- c. $(35 - 17) \div 3$
- d. $4 \times [30 - (9 + 6)]$

2 Writing expressions

/ 3 pts

Write an expression and evaluate it.

- a. Multiply the sum of 12 and 18 by 2.
- b. Subtract the product of 6 and 4 from 50.
- c. A store has 5 packs of 8 pencils. Three pencils are broken. How many good pencils are there?

3 Interpreting

/ 3 pts

- How many times as large as $82 - 37$ is $4 \times (82 - 37)$?
- Which is larger, $(210 + 90) \div 3$ or $210 + 90$? Do not calculate.
- Write “twice the difference of 50 and 14” as an expression and evaluate it.

4 Two patterns

/ 4 pts

Pattern A starts at 0 and adds 6. Pattern B starts at 0 and adds 3.

- Write the first five terms of each.
- How do the terms of A compare with the matching terms of B?
- Explain why.

5 Ordered pairs

/ 3 pts

Pattern A starts at 0 and adds 4. Pattern B starts at 0 and adds 12.

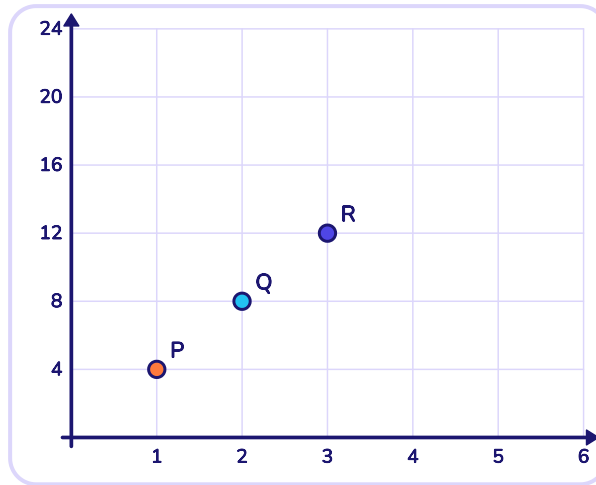
- Write the first four ordered pairs (A, B).
- How many times as large as A is B?

6

Reading a graph

/ 3 pts

The points P, Q and R come from two patterns.



- Write the ordered pairs of P, Q and R.
- Describe how y is related to x.
- A fourth point has x-coordinate 5 and follows the same rule. What is its y-coordinate?

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