

Two-Step Problems and Patterns: math test, Grade 3 – download the PDF

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

1 Order of operations

/ 4 pts

Calculate: a) $7 + 3 \times 5$ b) $(7 + 3) \times 5$ c) $40 - 6 \times 4$ d) $(40 - 6) \times 4$.

2 Unknown numbers

/ 3 pts

Find the unknown: a) $m + 26 = 71$ b) $9 \times k = 72$ c) $4 \times n + 7 = 39$.

3 Buying books

/ 4 pts

Priya has 50 dollars. She buys 3 books that cost 9 dollars each. Let m be the money she has left. a) Write an equation for m . b) Find the cost of the books. c) Find m . d) Write a sentence to answer.

4 Is it reasonable?

/ 3 pts

Tom says that $58 + 41 = 79$. a) Round to the nearest ten and estimate the sum. b) Is Tom's answer reasonable? Explain. c) Find the correct sum.

5

Multiplication patterns

/ 3 pts

The row of 4 in the multiplication table starts 4, 8, 12, 16, 20, 24. a) Write the next two numbers. b) Are all these numbers even or odd? Explain. c) You know $6 \times 7 = 42$. Give 7×6 and explain why.

6

Even and odd

/ 3 pts

a) Which of these numbers are even: 38, 71, 94, 115? b) Even or odd, without calculating much: $25 + 19$, 8×7 , $9 + 6$? c) 29 children form pairs. How many pairs are there, and how many children are left?

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