

Two-Step Problems and Patterns: math test solutions, Grade 3 – 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 Order of operations

/ 4 pts

- a) $3 \times 5 = 15, 7 + 15 = 22$. (1 pt)
- b) $7 + 3 = 10, 10 \times 5 = 50$. (1 pt)
- c) $6 \times 4 = 24, 40 - 24 = 16$. (1 pt)
- d) $40 - 6 = 34, 34 \times 4 = 136$. (1 pt)

2 Unknown numbers

/ 3 pts

- a) $m = 71 - 26 = 45$. (1 pt)
- b) $k = 72 \div 9 = 8$. (1 pt)
- c) $4 \times n = 39 - 7 = 32$, so $n = 32 \div 4 = 8$. (1 pt)

3**Buying books****/ 4 pts**

- a) $m = 50 - 3 \times 9$. (1 pt)
- b) $3 \times 9 = 27$ dollars. (1 pt)
- c) $m = 50 - 27 = 23$. (1 pt)
- d) Priya has 23 dollars left. (1 pt)

4**Is it reasonable?****/ 3 pts**

- a) $60 + 40 = 100$. (1 pt)
- b) No: 79 is far from 100, so it is not reasonable. (1 pt)
- c) $58 + 41 = 99$. (1 pt)

5**Multiplication patterns****/ 3 pts**

- a) 28 and 32. (1 pt)
- b) All even, because each number is a multiple of 2 (4 is even and an even number times any whole number is even). (1 pt)
- c) $7 \times 6 = 42$, because the order of the factors does not change the product. (1 pt)

6**Even and odd****/ 3 pts**

- a) 38 and 94 are even; 71 and 115 are odd. (1 pt)
- b) $25 + 19 = 44$ even (odd + odd). $8 \times 7 = 56$ even (one factor is even). $9 + 6 = 15$ odd (odd + even). (1 pt)
- c) $29 = 2 \times 14 + 1$: 14 pairs and 1 child left over. (1 pt)



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