

Yr. 6 PATTERNS & ALGEBRA TEST

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Criteria A – KNOWLEDGE

1. Write each expressions without the multiplication sign. (4)

a. $5 \times x + 3y$ ✓ b. $a \times b = ab$ ✓

c. $12 \times a \times x \times x = 12ax^2$ ✓ d. $2 \times x + 3 \times 1 = 2x + 3$ ✓

2. Write each expression in its simplest form. (4)

a. $a \times a = a^2$ ✓ b. $5 \times x \times x \times x = 5x^3$ ✓

c. $2 \times a \times 3 \times a = 6a^2$ ✓ d. $1 \times a \times a = a^2$ ✓

3. Write these divisions in fraction form. (4)

a. $x \div 5 = \frac{x}{5}$ ✓ b. $a \div a^2 = \frac{1}{a}$ ✓

c. $(a+2) \div 3 = \frac{a+2}{3}$ ✓ d. $1 \div (3+x) = \frac{1}{3+x}$ ✓

4. There are x counters in the blue box and y counters in the red box. Use pronumerals to write the number of counters in the following. (0)

a. $3x$ ✓ b. $2x + y$ ✓

c. $2x + 2y$ ✓ d. $3x + 2y$ ✓

e. $2x + y$ ✓ f. $3x + y$ ✓

5. Find the value of each expression if $n = 5$. (4)

a. $4n = 4 \times 5 = 20$ ✓ b. $\frac{n}{5} = \frac{5}{5} = 1$ ✓

c. $2n + 1 = 2 \times 5 + 1 = 11$ ✓ d. $\frac{n+7}{5} = \frac{5+7}{5} = \frac{12}{5}$ ✓

6. If $a = 3$ and $b = 6$, evaluate. (4)

a. $ab = 3 \times 6 = 18$ ✓ b. $2a + b = 2 \times 3 + 6 = 12$ ✓

c. $a^2 + 2b = 3^2 + 2 \times 6 = 9 + 12 = 21$ ✓ d. $\frac{b}{a} = \frac{6}{3} = 2$ ✓

7. Complete each of the tables. (4)

a. $y = 2x + 1$

x	0	2	4	6
y	1	5	9	13

b. $m = n^2$

n	0	1	2	3
m	0	1	4	9

8. Simplify each expression. (4)

a. $2x + 5x = 7x$ ✓ b. $7x - x = 6x$ ✓

c. $2ab + 3ba = 5ab$ ✓ d. $6ac - 5ac = ac$ ✓

e. $2x + 3 + 5 = 2x + 8$ ✓ f. $4x + 3y - 4x = 3y$ ✓

g. $2m + 3n + 4m + 5n = 6m + 8n$ ✓ h. $3p^2 + 5p + 2p^2 - 3p = 5p^2 + 2p$ ✓

10. Expand (remove grouping symbols). (4)

a. $3(x+4) = 3x + 12$ ✓ b. $5(1-a) = 5 - 5a$ ✓

c. $(2y+5)3 = 6y + 15$ ✓ d. $x(2x+y) = 2x^2 + xy$ ✓

11. Expand and simplify. (4)

a. $4(x+3)+5 = 4x + 12 + 5 = 4x + 17$ ✓ b. $3(2a+1)+8a = 6a + 3 + 8a = 14a + 3$ ✓

c. $5(2a-4)-8a = 10a - 20 - 8a = 2a - 20$ ✓ d. $-3a(-2x+2)+8x = 6ax - 6a + 8x$ ✓

12. Rewrite, using index notation. (4)

a. $a \times a \times a \times a = a^4$ ✓ b. $y \times y \times y \times y \times y = y^5$ ✓

Sopris West Algebra Readiness Test Answer

Joe Witt



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