

Name: _____ Date: _____

Multiplying Polynomials

When multiplying polynomials, use the _____ property!!!

1. Rewrite distributing the _____ to each term of the polynomial.
2. _____ coefficients
3. _____ exponents
4. Write in _____ form.

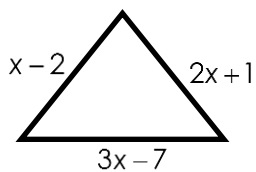
1. $4x(3x^2 + 4x - 8)$

2. $(x+3)(x-2)$

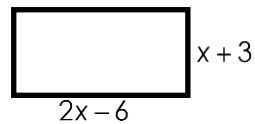
3. $(2x+3)(4x+1)$

4. $(x+1)(x^2 + x - 1)$

5. Perimeter:



6. Area:



1. What is the simplest form of $\sqrt{208x^2}$?

A. $4x\sqrt{13}$

B. $2x\sqrt{52x}$

C. $8x\sqrt{13}$

D. $13x\sqrt{2x}$

2. Which is equivalent to $-2\sqrt{5} - 16\sqrt{5} - 5\sqrt{5}$?

A. $-19\sqrt{5}$

B. $-9\sqrt{5}$

C. $-23\sqrt{5}$

D. $23\sqrt{5}$

3. Simplify: $6\sqrt{2} \cdot 2\sqrt{8}$

A. 48

B. $8\sqrt{20}$

C. $6\sqrt{16}$

D. $12\sqrt{8}$

4. Brittany is working on getting in shape for tennis season. The coaches tell her she needs to run 5 km two times a week. If she does this for 10 weeks, how many meters will she run?

A. 50 km

B. 50,000 m

C. 100,000 km

D. 100,000 m

5. Zoe has to attend school for 6 years to be a lawyer. How many days will she be in school?

a. 182 days

b. 546 days

c. 2190 days

d. 2184 days

6. Add: $(-5x^2 + 3x - 8) + (-3x^2 - 4x - 9)$

a. $-2x^2 - 7x - 17$

c. $-2x^2 - 7x - 11$

b. $-8x^2 - x - 17$

d. $-8x^2 - 7x - 17$

7. Subtract: $(-5x^2 + x - 5) - (-3x^2 - 8x - 3)$

a. $-2x^2 - 7x - 2$

c. $-2x^2 + 9x - 8$

b. $-2x^2 + 9x + 5$

d. $-2x^2 + 9x - 2$

8. Multiply: $4x^2(-x^2 + 5x + 4)$

a. $-4x^3 + 20x^2 + 16x$

c. $-4x^4 + 20x^3 + 16x^2$

b. $20x^2 + 4x + 16$

d. $-3x^2 + 9x + 8$
