Quizizz

Multiplying & Dividing Polynomials

Name : _____

Class : _____

Date : _____

1. Simplify the following: (-6a)(-4a)

- [ ] a) $-10a^2$
- [ ] b) $-10+2a$
- [ ] c) $-24+a^2$
- [ ] d) $24a^2$

2. Simplify the following: (-32ac) ÷ (-8ac)

- [ ] a) 4
- [ ] b) -4
- [ ] c) 4ac
- [ ] d) -4ac

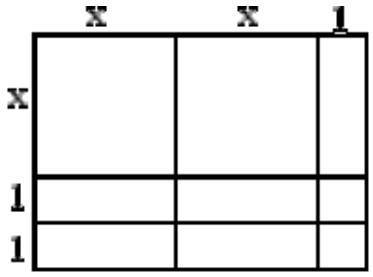
3. Simplify the following: (4x)(- 3x)

- [ ] a) x^2
- [ ] b) $12x^2$
- [ ] c) $-12x^2$
- [ ] d) $7x^2$

4. Simplify the following: $(20x^2)$ ÷ (-x)

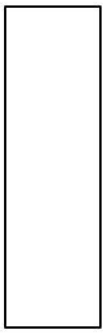
- [ ] a) 20x
- [ ] b) $-20x^2$
- [ ] c) -20x
- [ ] d) $-20x^3$

5. Which expression represents the product of (2x+1)(x+2) ? (shown in the diagram)



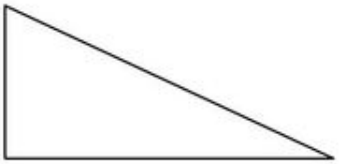
- [ ] a) 2x + 5x +2
- [ ] b) $2x^2 + 5x + 2$
- [ ] c) $5x^2 + 2x + 2$
- [ ] d) 2x + 7

6. Which ***expression*** represents the AREA of the following shape?



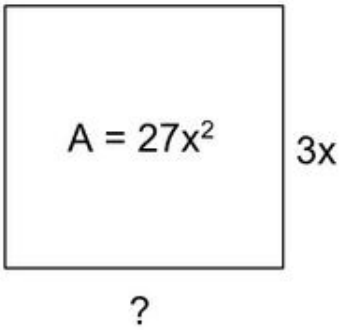
- ☐ a) x
- ☐ b) $(1)(x)$
- ☐ c) $(x)(x)$
- ☐ d) $(x^2)(x)$

7. Which ***expression*** represents the AREA of this shape?



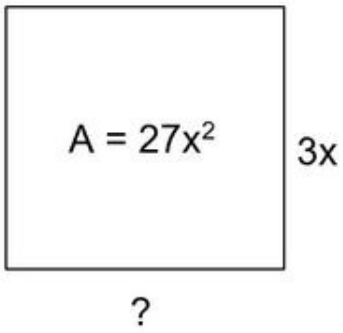
- ☐ a) $[(2) \times (x)] \div 2$
- ☐ b) $[(1) \times (x)] \div 2$
- ☐ c) $(x) \div 2$
- ☐ d) $x^2 \div 2$
- ☐ e) $\frac{1}{2}x$

8. Which ***expression*** represents the unknown (?) side of this shape?



- ☐ a) $27x^2 \times 3x$
- ☐ b) $27x^2 \div 3x$
- ☐ c) $3x \times 27x^2$
- ☐ d) $3x \div 27x^2$

9. **Solve** for the unknown side:



- ☐ a) $9x^2$
- ☐ b) $24x$
- ☐ c) $24x^2$
- ☐ d) $9x$

10. Multiply then simplify: $(5x)(-4x + 2y)$

- ☐ a) $20x^2 - 10xy$
- ☐ b) $-20x^2 + 10xy$
- ☐ c) $x^2 + 7xy$
- ☐ d) $-9x^2 + 7xy$

11. Expand and simplify: $4(5x + 3) + 5(2x - 2)$

- ☐ a) $(20x + 12) + (10x - 10)$
- ☐ b) $30x + 2$
- ☐ c) $30x + 22$
- ☐ d) $10x - 2$

12. Expand & Simplify: $3y(y - 2) - 3(2y + 6)$

- ☐ a) $(3y^2 - 6y) - (6y + 18)$
- ☐ b) $3y^2 - 12y - 18$
- ☐ c) $3y^2 - 12y + 18$
- ☐ d) $3y^2 + 18$

Answer Key

1. d
2. a
3. c
4. c
5. b
6. b
7. b,c,e
8. b
9. d
10. b
11. b
12. b