

Distributive Property Word Problems Worksheet

A restaurant serves 3 pepperoni pizzas and 3 cheese pizzas. Each pizza costs the same. Use the distributive property to find the total cost of the pizzas.

A student buys 4 packs of blue pens and 4 packs of black pens. Each pack costs \$3. Use the distributive property to find the total cost.

A school trip costs \$7 per student. There are 6 boys and 8 girls going on the trip. Use the distributive property to find the total cost for all students.

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Answer Key

A restaurant serves 3 pepperoni pizzas and 3 cheese pizzas. Each pizza costs the same. Use the distributive property to find the total cost of the pizzas.

- **3 pepperoni + 3 cheese pizzas = $3 + 3 = 6$ pizzas.**
- **Let the cost of each pizza be p .**
- **Expression: $3p + 3p = 6p$**
- **→ Using distributive property: $3(p + p) = 3(2p) = 6p$**
- **Total cost is $6p$**

A student buys 4 packs of blue pens and 4 packs of black pens. Each pack costs \$3. Use the distributive property to find the total cost.

- **4 packs of blue + 4 packs of black pens = $4 + 4 = 8$ packs.**
- **Each pack costs \$3.**
- **Expression: $4(3) + 4(3) = 12 + 12 = 24$**
- **Using distributive property: $4(3 + 3) = 4(6) = 24$**
- **Total cost is \$24.**

A school trip costs \$7 per student. There are 6 boys and 8 girls going on the trip. Use the distributive property to find the total cost for all students.

- **6 boys + 8 girls = 14 students.**
- **Each student pays \$7.**
- **Expression: $6(7) + 8(7) = 42 + 56 = 98$**
- **Using distributive property: $(6 + 8)(7) = 14(7) = 98$**
- **Total cost is \$98.**