

Name: ..... Class: .....

## Multiply using the distributive property

Simplify the following expressions below using the distributive property of multiplication.

1.  $4 \times (3r + 6)$

2.  $5 (36 + 2)$

3.  $10 (20 + 11r)$

4.  $(9 + 3) 6$

5.  $219 (45,120 + 7,24)$

6.  $54 (45 + 169v)$

7.  $(s + t + u + v + 0) 29$

8.  $451*(36w + 12 + 147)$

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Simplify the following expressions below using the distributive property of multiplication

1.  $4 \times (3r + 6)$   
 Use the distributive property.  
 $4 \times (3r + 6) = (4 \times 3r) + (4 \times 6)$ .  
 Simplify.  
 $(4 \times 3r) + (4 \times 6)$   
 $= (12r) + 24$   
 $12r + 24$

2.  $190$

3.  $200 + 110r$

4.  $72$

5. So,  $19 (45,120 + 7,248) = 994,992$ .

6. So,  $54 (45 + 169v) = 2,430 + 9,126v$ .

7. So,  $(s + 125t + u + 0) 29 = 29s + 3,625t + 29u$ .

8. So,  $451*(36w + 12 + 147) = 16,236w + 5,412 + 66,297$ .