



Apply the distributive property to produce an equivalent expression.

D 1) $4(6w + 3)$

C 2) $u + u + u + u + u + u + u = 7u$

D 3) $10(5v + 10)$

D 4) $7(8e + 2)$

① **Distribute** (D)

$2(3x + 5) = 6x + 10$

F 5) $100b + 70$

D 6) $3(2z + 5)$

F 7) $10m + 20$

② **Factor** (F)

F 8) $72 + 32y$

$36x + 21$

GCF = 3

F 9) $70 + 90r$

$\div 3 \quad \div 3$
 $3(12x + 7)$

D 10) $10(7s + 6)$

C 11) $f + f + f + f + f$

③ **Combine** (C)

D 12) $10(2 + 6t)$

$m + m + m = 3m$

D 13) $10(10 + 3p)$

D 14) $2(10h + 5)$

F 15) $18a + 30$

C 16) $d + d + d + d + d + d + d + d + d$

C 17) $n + n + n$

D 18) $2(5g + 6)$

D 19) $3(4 + 6c)$

F 20) $16 + 32k$

Answers

1. _____
2. 7u
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

AKA



Applying Properties of Operations

Name: **Answer Key**

Apply the distributive property to produce an equivalent expression.

- 1) $4(6w + 3)$
- 2) $u + u + u + u + u + u + u$
- 3) $10(5v + 10)$
- 4) $7(8e + 2)$
- 5) $100b + 70$
- 6) $3(2z + 5)$
- 7) $10m' + 20$
- 8) $72 + 32y$
- 9) $70 + 90r$
- 10) $10(7s + 6)$
- 11) $f + f + f + f + f$
- 12) $10(2 + 6t)$
- 13) $10(10 + 3p)$
- 14) $2(10h + 5)$
- 15) $18a + 30$
- 16) $d + d + d + d + d + d + d + d + d$
- 17) $n + n + n$
- 18) $2(5g + 6)$
- 19) $3(4 + 6c)$
- 20) $16 + 32k$

Answers

1. $24w + 12$
2. $7u$
3. $50v + 100$
4. $56e + 14$
5. $10(10b + 7)$
6. $6z + 15$
7. $10(1m + 2)$
8. $8(9 + 4y)$
9. $10(7 + 9r)$
10. $70s + 60$
11. $5f$
12. $20 + 60t$
13. $100 + 30p$
14. $20h + 10$
15. $6(3a + 5)$
16. $9d$
17. $3n$
18. $10g + 12$
19. $12 + 18c$
20. $16(1 + 2k)$