

Name Key

Period

SCORE:

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HW 3-3

Distributive Property
& Simplifying Like Terms

Unit 3

Int 1

Simplify each expression using the Distributive Property. Show your work.

1. $5(x+6)$

$5x+30$

7. $-8(y+2z)$

$-8y-16z$

13. $-7(2x+9y)$

$-14x-63y$

2. $3(4g+6h)$

8. $-6(3f+1)$

14. $-9(2+3y)$

3. $8k(3m-6)$

$24km-48k$

9. $-2y(p-6)$

$-2yp+12y$

15. $4.7(3m+7n)$

$14.1m+32.9n$

4. $\frac{4}{7}(21w-14r)$

10. $-(3c-d)$

16. $(-15+b)\frac{2}{5}$

5. $10.4(7a-6b)$

$72.8a-62.4b$

11. $\frac{3}{4}(8h+4)$

$6h+3$

17. $(5+v)(-5)$

$-25-5v$

6. $-\frac{1}{3}(2y+6)$

12. $-2(3t-6)$

18. $5+2(3a+6)$

19. $2(x+y)+7y$

$2x+9y$

21. $10-3(h+5)$

$-3h-5$

23. $-2(u-w)+6$

$-2u+2w+6$

20. $-4.8(3s+t)+3t$

22. $\frac{4}{15}(3y+5)-\frac{2}{5}y$

24. $-(4-2y)+16$

25. Which answer choice is the correctly simplified version of: $2(x+10)$

A. $20x$

B. $2x+10$

C. $2x+20$

D. $12x$

26. Which answer choice is the correctly simplified version of: $-20(z-5)$

A. $20z-5$

B. $-20z-5$

C. $20z+100$

D. $-20z+100$

27. At the amusement park, it costs \$12 to ride the go-carts, \$8 for laser tag, and \$6 for mini golf.

a) Write two equivalent expressions for the total cost of bringing 5 people.

$5(12+8+6)$

OR

$5 \cdot 12 + 5 \cdot 8 + 5 \cdot 6$

b) What is the total cost of bringing 5 people?

$\$130.00$

Spiral Review: Choose the correct answer.

28. Write -3.6 as a fraction in simplest form.

A) $-\frac{3}{6}$

B) $-\frac{1}{2}$

C) $-3\frac{3}{5}$

D) $-3\frac{1}{6}$

E) $-\frac{9}{20}$

29. Convert .35 to a fraction in simplest form.

A) $\frac{3}{5}$

B) $\frac{7}{20}$

C) $\frac{35}{100}$

D) $\frac{1}{35}$

E) $3\frac{1}{5}$

30. Convert $\frac{5}{8}$ to a decimal.

A) .625

B) 5.8

C) .58

D) .8

E) .85