Name _____

4.7 Order of Operations with Integers

MATHPOWER™ *Seven*, pp. 134–135

Use the acronym BEDMAS to help you remember the order.

B	E	DM	AS
Brackets	Exponents	Divide and multiply in order from left to right.	Add and subtract in order from left to right.

Simplify.

1. $7 - 2 \times 3$ _____
2. $-8 + 14 \div (-2)$ _____
3. $-6 + (-3) \times 4$ _____
4. $48 \div (-12) + 3$ _____
5. $16 \div (-2) - 3$ _____
6. $-11 \times 4 \div (-2)$ _____
7. $60 - 6 \div 6 + (-8)$ _____
8. $20 \times (-4) \div 8 + (-3)$ _____
9. $12 - 16 - 24 - (-6)$ _____
10. $-9 \times 6 + 7 \times (-3)$ _____

Simplify.

11. $-3 \times 2^3 + 12$ _____
12. $4^2 \div (-8) + 7$ _____
13. $7 \times (-3) - (-3)^3$ _____
14. $3 - (-2)^3 + 7$ _____
15. $8^2 - 8 \times 9$ _____
16. $(-3)^2 + (-10)^3$ _____
17. $6 \times 5 - (-2)^5$ _____
18. $3 \times (-3)^2 \div 3^3$ _____
19. $(-8)^2 \div 2^3 - 3 \times 4^2$ _____
20. $12^2 - (-6)^2 + (-3)^3$ _____

Simplify.

21. $(-4)^3 \times 2 \div 8 + (-14)$ _____
22. $6(3 - 4) - 7 \times (-2)^3$ _____
23. $32 \div 2(3 - 7)$ _____
24. $2(7 - 9) - 6(9 \div 3)$ _____
25. $4 \times 2(3 + 5)$ _____
26. $7(4 + (-8)) \div (-2)^2$ _____
27. $\dfrac{-6 \times 3}{-1}$ _____
28. $\dfrac{7 - 4 \times 2}{(-1)^3}$ _____
29. $\dfrac{18 \div 9 \times 4}{4 - 6}$ _____
30. $\dfrac{-6 + (-9)}{7 - 2^2}$ _____

Combine the 4 integers to write an expression that equals each of the following answers.

$\boxed{-3}$ $\boxed{5}$ $\boxed{15}$ $\boxed{-9}$

31. _____ _____ _____ _____ $= -9$
32. _____ _____ _____ _____ $= 8$
33. _____ _____ _____ _____ $= 9$
34. _____ _____ _____ _____ $= -7$
35. Combine the 4 integers in 2 other ways and solve each expression.

_____

_____