Name ______________________ Date __________ Class __________

LESSON 2-4

Practice C
Multiplying and Dividing Integers

Find each product.

1. $9 \cdot (-8)$ ______
2. $-7 \cdot 7$ ______
3. $-5 \cdot (-6)$ ______
4. $-4 \cdot 8$ ______

5. $12 \cdot (-10)$ ______
6. $-50 \cdot 3$ ______
7. $8 \cdot 10$ ______
8. $-20 \cdot (-6)$ ______

Multiply.

9. $-7 \cdot (-5)$ ______
10. $10 \cdot (-9)$ ______
11. $-8 \cdot (-8)$ ______
12. $12 \cdot (-3)$ ______

13. $-9 \cdot 8$ ______
14. $15 \cdot (-4)$ ______
15. $-5 \cdot (-25)$ ______
16. $-150 \cdot 2$ ______

Find each quotient.

17. $63 \div (-7)$ ______
18. $-48 \div (-4)$ ______
19. $-36 \div 9$ ______
20. $-81 \div (-9)$ ______

21. $-56 \div (-7)$ ______
22. $-54 \div 9$ ______
23. $80 \div (-10)$ ______
24. $-60 \div (-12)$ ______

25. $33 \div (-3)$ ______
26. $100 \div (-20)$ ______
27. $-75 \div (-3)$ ______
28. $96 \div 8$ ______

29. $-200 \div 50$ ______
30. $-80 \div (-4)$ ______
31. $48 \div 12$ ______
32. $77 \div (-11)$ ______

33. As Randy swam underwater, his elevation changed steadily for 4 minutes. Altogether it changed -20 feet. What was the change in elevation during each minute?

____

34. Marie withdrew the same amount of money from her savings account each month for 5 months. Altogether she withdrew $300. She did not make any deposits. What was the change in Marie's savings account balance each month?

____

LESSON **2-4**

Practice A
Multiplying and Dividing Integers

Find each product.

1. 6 • (−1) −6
2. −4 • 2 −8
3. −3 • (−4) 12
4. −2 • 8 −16
5. 5 • (−7) −35
6. −7 • 9 −63
7. 8 • 4 32
8. −3 • (−5) 15

Multiply.

9. −5 • (−5) 25
10. 8 • (−4) −32
11. −7 • (−6) 42
12. 9 • (−8) −72
13. 1 • (−7) −7
14. −4 • (−5) 20
15. −6 • 3 −18
16. −7 • (−7) 49

Find each quotient.

17. 12 ÷ (−4) −3
18. −15 ÷ (−3) 5
19. −20 ÷ 5 −4
20. −27 ÷ (−9) 3
21. −45 ÷ (−5) 9
22. −18 ÷ 9 −2
23. 24 ÷ (−4) −6
24. 32 ÷ 4 8
25. 21 ÷ 3 7
26. −36 ÷ (−4) 9
27. 16 ÷ (−4) −4
28. −56 ÷ 8 −7
29. −42 ÷ 7 −6
30. −30 ÷ (−6) 5
31. 27 ÷ 9 3
32. 25 ÷ (−5) −5

33. Jenny was walking down a wooded path. For 4 minutes, the elevation dropped steadily. Altogether it dropped 12 feet. What was the change in elevation during the first minute?

−3 feet

34. As a cold front passed, the temperature dropped steadily 2 degrees each hour. It dropped a total of 10 degrees. How many hours did it take for the temperature to drop this far?

5 hours

LESSON **2-4**

Practice B
Multiplying and Dividing Integers

Find each product.

1. 8 • (−5) −40
2. −4 • 7 −28
3. −6 • (−3) 18
4. −2 • 4 −8
5. 4 • (−9) −36
6. −9 • 5 −45
7. 6 • 8 48
8. −7 • (−3) 21

Multiply.

9. −6 • (−6) 36
10. 9 • (−3) −27
11. −2 • (−8) 16
12. 5 • (−7) −35
13. 10 • 8 80
14. −5 • 9 −45
15. 9 • (−6) −54
16. (−4) • (−11) 44

Find each quotient.

17. 25 ÷ (−5) −5
18. −54 ÷ (−6) 9
19. −10 ÷ 5 −2
20. −28 ÷ (−4) 7
21. −42 ÷ (−7) 6
22. −21 ÷ 3 −7
23. 36 ÷ (−6) −6
24. −81 ÷ (− 9) 9
25. −32 ÷ 8 −4
26. 45 ÷ (−9) −5
27. −72 ÷ (−8) 9
28. 50 ÷ 10 5
29. −42 ÷ 6 −7
30. −72 ÷ (−9) 8
31. 40 ÷ 8 5
32. 56 ÷ (−7) −8

33. Kim was walking down a rocky path. For 4 minutes, the elevation dropped steadily. Altogether it dropped 8 feet. What was the change in elevation per minute for the 4 minutes?

−2 feet

34. As a front passed, the temperature changed steadily over 6 hours. Altogether it changed -18 degrees. What was the change in temperature per hour for the 6 hours?

−3 degrees

LESSON **2-4**

Practice C
Multiplying and Dividing Integers

Find each product.

1. 9 • (−8) −72
2. −7 • 7 −49
3. −5 • (−6) 30
4. −4 • 8 −32
5. 12 • (−10) −120
6. −50 • 3 −150
7. 8 • 10 80
8. −20 • (−6) 120

Multiply.

9. −7 • (−5) 35
10. 10 • (−9) −90
11. −8 • (−8) 64
12. 12 • (−3) −36
13. −9 • 8 −72
14. 15 • (−4) −60
15. −5 • (−25) 125
16. −150 • 2 −300

Find each quotient.

17. 63 ÷ (−7) −9
18. −48 ÷ (−4) 12
19. −36 ÷ 9 −4
20. −81 ÷ (−9) 9
21. −56 ÷ (−7) 8
22. −54 ÷ 9 −6
23. 80 ÷ (−10) −8
24. −60 ÷ (−12) 5
25. 33 ÷ (−3) −11
26. 100 ÷ (−20) −5
27. −75 ÷ (−3) 25
28. 96 ÷ 8 12
29. −200 ÷ 50 −4
30. −80 ÷ (−4) 20
31. 48 ÷ 12 4
32. 77 ÷ (−11) −7

33. As Randy swam underwater, his elevation changed steadily for 4 minutes. Altogether it changed -20 feet. What was the change in elevation during each minute?

−5 feet

34. Marie withdrew the same amount of money from her savings account each month for 5 months. Altogether she withdrew $300. She did not make any deposits. What was the change in Marie's savings account balance each month?

−$60

LESSON **2-4**

Reteach
Multiplying and Dividing Integers

Look for the patterns in these products and quotients.

1 • 3 = 3	−1 • 3 = −3	3 ÷ 1 = 3	3 ÷ (−1) = −3
2 • 3 = 6	−2 • 3 = −6	6 ÷ 2 = 3	6 ÷ (−2) = −3
−3 • (−3) = 9	3 • (−3)= −9	−9 ÷ (−3) = 3	−9 ÷ 3 = −3
−4 • (−3) = 12	4 • (−3)= −12	−12 ÷ (−4) = 3	−12 ÷ 4 = −3

Look at how to find the signs of the products.

- The product of two integers with the **same sign** is **positive.**

  (+) • (+) = (+)   (−) • (−) = (+)

- The product of two integers with **different signs** is **negative.**

  (+) • (−) = (−)   (−) • (+) = (−)

Look at how to find the signs of the quotients.

- The quotient of two integers with the **same sign** is **positive.**

  (+) ÷ (+) = (+)   (−) ÷ (−) = (+)

- The quotient of two integers with **different signs** is **negative.**

  (+) ÷ (−) = (−)   (−) ÷ (+) = (−)

Find each product or quotient.

1. −5 • 4 −20
2. 2 • (−8) −16
3. −1 • (−1) 1
4. −6 • 3 −18
5. 7 • (−3) −21
6. −8 • (−4) 32
7. −6 • 5 −30
8. −9 • (−9) 81
9. 36 ÷ (−4) −9
10. −27 ÷ 9 −3
11. −24 ÷ (−6) 4
12. −30 ÷ 5 −6
13. 18 ÷ 6 3
14. 32 ÷ (−8) −4
15. −45 ÷ 9 −5
16. −40 ÷ (−10) 4