NAME _____ DATE _____ PERIOD _____

Lesson 5 Skills Practice

Dividing Integers

Find each quotient.

1. $16 \div 4$ **2.** $-27 \div 3$ **3.** $25 \div (-5)$ **4.** $63 \div (-9)$

5. $-15 \div (-3)$ **6.** $14 \div (-7)$ **7.** $-124 \div 4$ **8.** $60 \div 15$

9. $28 \div (-4)$ **10.** $-56 \div (-8)$ **11.** $72 \div 8$ **12.** $-21 \div (-7)$

13. $\frac{-32}{4}$ **14.** $\frac{45}{9}$ **15.** $\frac{-45}{3}$ **16.** $\frac{-25}{-5}$

17. $\frac{35}{-7}$ **18.** $\frac{-63}{-7}$ **19.** $\frac{-144}{12}$ **20.** $\frac{48}{-6}$

Evaluate each expression if $x = -8$ and $y = -12$.

21. $x \div 2$ **22.** $x \div (-4)$ **23.** $36 \div y$ **24.** $0 \div y$

25. $-60 \div y$ **26.** $56 \div x$ **27.** $8 \div x$ **28.** $-108 \div y$

29. $\frac{x}{-2}$ **30.** $\frac{y}{3}$ **31.** $\frac{0}{x}$ **32.** $\frac{-112}{x}$

33. $\frac{y}{-6}$ **34.** $\frac{x}{4}$ **35.** $\frac{-144}{y}$ **36.** $\frac{-136}{x}$

Find the average (mean) of each group of numbers.

37. 3, 12, 6 **38.** −8, −1, −3 **39.** −8, 15, 5, 8 **40.** −3, −10, 2, −4, 0

41. −10, −7, 7, 10 **42.** 12, 24, 9, 15, 18, 20, 16, 14 **43.** −4, −11, −6, 1, 8, −12

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NAME _____ DATE _____ PERIOD _____

Lesson 5 Homework Practice

Dividing Integers

Find each product.

1. $-44 \div 4$ **2.** $0 \div (-5)$ **3.** $-21 \div 21$ **4.** $32 \div 8$

5. $-17 \div (-17)$ **6.** $-49 \div 7$ **7.** $80 \div (-4)$ **8.** $-64 \div (-8)$

9. $\frac{72}{-9}$ **10.** $\frac{-100}{-5}$ **11.** $\frac{-90}{6}$ **12.** $\frac{360}{12}$

13. $\frac{-400}{-25}$ **14.** $\frac{-525}{5}$ **15.** $\frac{84}{-6}$ **16.** $\frac{215}{5}$

Evaluate each expression if $a = -2$, $b = 5$, and $c = -4$.

17. $-35 \div b$ **18.** $54 \div a$ **19.** $-56 \div c$ **20.** $205 \div b$

21. $\frac{c}{-2}$ **22.** $\frac{b}{5}$ **23.** $\frac{2}{a}$ **24.** $\frac{-4}{c}$

25. $\frac{-28}{c}$ **26.** $\frac{ac}{-8}$ **27.** $\frac{bc}{a}$ **28.** $\frac{250}{ab}$

Find the average (mean) of each group of numbers.

29. 23, 20, 27, 18 **30.** $-8, 9, 4, 0, 2, -1$ **31.** 17, 21, 4

32. $-20, -15, -12, -1, 1, 12, 15, 20$ **33.** $-7, -3, -9, 0, 21, -2, -14$

34. Miranda earned scores of 84, 91, 95, 78, and 92 on her math tests. Find her average (mean) score.

35. At noon on Friday, the temperature was 0°F. Six hours later the temperature was −18°F. On average, what was the temperature change per hour?

36. The architecture firm of Stuart, Kennedy, and Maxwell, Ltd., had monthly profits of \$1200, \$755, −\$450, \$210, and −\$640 over 5 months. What was the average profit for those months?

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Lesson 5 Problem-Solving Practice

Dividing Integers

1. Hans is at the observatory of the Empire State Building in New York City. The observatory is on the 86th floor of the building. Hans will take the elevator down from the 86th floor to the first floor, a distance of 320 meters. If the ride takes 50 seconds to descend, what is the rate of descent in meters per second?

2. Lydia and her family live in Canada. During the month of February, Lydia recorded the average daily temperature for one week. Her results are shown in the table below. What was the average for that week?

Sun	Mon	Tue	Wed	Thu	Fri	Sat
−3°C	−4°C	0°C	−2°C	0°C	3°C	−1°C

3. Most energy produced in the industrialized world comes from fossil fuels. The table below shows the energy production from fossil fuels in the United States for 2006. What was the average total energy produced from fossil fuels per month? Round to the nearest tenth.

Source	British thermal units (Btu) (in quadrillions)
Coal	24
Natural Gas	19
Petroleum	13

4. A rock climber makes several changes in position while attempting to scale a cliff face. She ascends 15 feet, descends 7 feet, ascends 22 feet, descends 13 feet, and then ascends another 28 feet. What is her mean change in position?

5. Jessica received scores of 86, 88, 92, and 90 on her first four tests in math class. What is Jessica's average score on the four tests?

6. Refer to the information in Exercise 5. Jessica wants to earn at least a 90 in her class. She has one more test before the end of the grading period. What must she score on that test in order to have an average of 90 for the grading period?

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