Extra Practice

Divide.

24. $56 \div (-8) =$ ___-7___

> **Homework Help**
> $56 \div (-8) = -7$
> The integers have different signs. The quotient is negative.

25. $-36 \div (-4) =$ _9_

$-36 \div (-4) = 9$
The integers have the same signs. The quotient is positive.

26. $32 \div (-8) =$ _____

27. $\dfrac{-16}{-4} =$ _____

28. $\dfrac{-27}{3} =$ _____

29. $\dfrac{-54}{-6} =$ _____

Evaluate each expression if $r = 12$, $s = -4$, and $t = -6$.

30. $-12 \div r$ _____

31. $72 \div t$ _____

32. $\dfrac{s+t}{5}$ _____

33. Divide -200 by -100. _____

34. Find the quotient of -65 and -13. _____

35. **STEM** The boiling point of water is affected by changes in elevation. Use the expression $\dfrac{-2A}{1,000}$, where A represents the altitude in feet, to find the number of degrees Fahrenheit at which the boiling point of water changes at an altitude of 5,000 feet. Then explain its meaning.

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36. **PS Use Math Tools** The change in altitude over time for several hot air balloons is shown. Find the rate of change in feet per minute for each balloon.

Balloon	Change in Altitude (ft)	Time (min)	Rate of Change (ft/min)
Midnight Express	-2,700	135	
Neon Lights	480	30	
Star Wonder	-1,500	60	

37. A hang glider flew to an altitude of 10,000 feet. Fifteen minutes later, its altitude was 7,000 feet. What was the average change in elevation per minute?

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38. The table shows the number of points that each student lost on the first math test. Each question on the test was worth an equal number of points. Christopher answered 6 questions incorrectly. How many questions did Nythia, Raul, Tonya, and Michael answer incorrectly?

Student	Points Lost	Number Incorrect
Christopher	−24	6
Michael	−12	
Nythia	−16	
Raul	−4	
Tonya	−28	

Another student answered 9 questions incorrectly. How many points did that student lose?

_____

Spiral Review

Write the opposite of each integer.

39. 8 _____

40. 9 _____

41. −7 _____

42. −5 _____

43. A display of cereal boxes has one box in the top row, two boxes in the second row, three boxes in the third row, and so on, as shown. How many rows of boxes will there be in a display of 45 boxes?

_____

44. Name the quadrant in which the point (−4, −3) could be found on the coordinate plane. _____