Name

Class

Date



1-1

Variables and Expressions

**Practice** *Form G*

**Write an algebraic expression for each word phrase.**

|  |  |
| --- | --- |
| **1.** 10 less than *x* | **2.** 5 more than *d* |
| **3.** 7 minus *f* | **4.** the sum of 11 and *k* |
| **5.** *x* multiplied by 6 | **6.** a number *t* divided by 3 |
| **7.** one fourth of a number *n* | **8.** the product of 2.5 and a number *t* |
| **9.** the quotient of 15 and *y* | **10.** a number *q* tripled |
| **11.** 3 plus the product of 2 and *h* | **12.** 3 less than the quotient of 20 and *x* |

**Write a word phrase for each algebraic expression.**

|  |  |  |
| --- | --- | --- |
| **13.** *n* + 6 | **14.** 5 − *c* | **15.** 11.5 + *y* |
| **16.**  | **17.** 3*x +* 10 | **18.** 10*x +* 7*z* |

**Write a rule in words and as an algebraic expression to model the relationship in each table.**

**19.** The local video store charges a monthly membership fee of $5 and $2.25 per video.

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Name

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1-1

Variables and Expressions

**Practice** (continued) *Form G*

**20.** Dorothy gets paid to walk her neighbor’s dog. For every week that she walks the dog, she earns $10.

**Write an algebraic expression for each word phrase.**

1. 8 minus the quotient of 15 and *y*
2. a number *q* tripled plus *z* doubled
3. the product of 8 and *z* plus the product of 6.5 and *y*
4. the quotient of 5 plus *d* and 12 minus *w*
5. **Error Analysis** A student writes 5*y* · 3 to model the relationship *the sum of 5y and 3*. Explain the error.
6. **Error Analysis** A student writes *the difference between 15 and the product of 5 and y* to describe the expression 5*y −* 15. Explain the error.
7. Jake is trying to mail a package to his grandmother. He already has *s* stamps
on the package. The postal worker tells him that he’s going to have to double the number of stamps on the package and then add 3 more. Write an algebraic expression that represents the number of stamps that Jake will have to put on the package.

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