

Example 2
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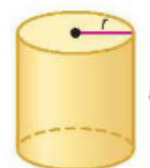
Write an algebraic expression for each verbal expression.

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|----------------------------------|--|
| 19. x more than 7 | 20. a number less 35 |
| 21. 5 times a number | 22. one third of a number |
| 23. f divided by 10 | 24. the quotient of 45 and r |
| 25. three times a number plus 16 | 26. 18 decreased by 3 times d |
| 27. k squared minus 11 | 28. 20 divided by t to the fifth power |

Example 3
p. 6

29. **GEOMETRY** The volume of a cylinder is π times the radius r squared multiplied by the height h . Write an expression for the volume.

30. **FINANCIAL LITERACY** Jocelyn makes x dollars per hour working at the grocery store and n dollars per hour babysitting. Write an expression that describes her earnings if she babysat for 25 hours and worked at the grocery store for 15 hours.



Write a verbal expression for each algebraic expression.

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|-----------------|-----------------|----------------------|
| 31. $25 + 6x^2$ | 32. $6f^2 + 5f$ | 33. $\frac{3a^5}{2}$ |
|-----------------|-----------------|----------------------|

H.O.T. Problems

Use **H**igher-**O**rders **T**hinking Skills

38. **REASONING** Explain the differences between an algebraic expression and a verbal expression.
39. **OPEN ENDED** Define a variable to represent a real-life quantity, such as time in minutes or distance in feet. Then use the variable to write an algebraic expression to represent one of your daily activities. Describe in words what your expression represents, and explain your reasoning.
40. **FIND THE ERROR** Consuelo and James are writing an algebraic expression for *three times the sum of n squared and 3*. Is either of them correct? Explain your reasoning.

<p>Consuelo</p> $3(n^2 + 3)$	<p>James</p> $3n^2 + 3$
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Find the absolute value of each expression:

41. $|25|$
42. $|-24 + 5|$
43. $-|-20|$
44. $-|12|$