

Solutions Sec 1.1

11. Sample answer: four times a number q

13. Sample answer: 15 plus r

15. Sample answer: 3 times x squared

17. Sample answer: 6 more than the product 2 times a

19. $7 + x$

21. $5n$

23. $f/10$

25. $3n + 16$

27. $k^2 - 11$

29. πr^2h

31. Sample answer: twenty-five plus six times a number squared

33. Sample answer: three times a number raised to the fifth power divided by two

35a. $\frac{3}{4}d$ 35b. 21

37a.

10^2	x	10^1	=	$10 \times 10 \times 10$	=	10^3
10^2	x	10^2	=	$10 \times 10 \times 10 \times 10$	=	10^4
10^2	x	10^3	=	$10 \times 10 \times 10 \times 10 \times 10$	=	10^5
10^2	x	10^4	=	$10 \times 10 \times 10 \times 10 \times 10 \times 10$	=	10^6

37b. $10^2 \times 10^x = 10^{(2+x)}$

37c. The exponent of the product of two powers is the sum of the exponents of the powers with the same base.