

Answer Key

Chapter 1

Try It

1.1 Real Numbers: Algebra Essentials

1. ☐ a. $\frac{11}{1}$ ☒ b. $\frac{2}{1}$ ☐ c. $-\frac{4}{1}$

- 2.
- ☐
- a. 4 (or 4.0), terminating;
-
- ☒
- b. 0.615384, repeating;
-
- ☐
- c. -0.85, terminating

- 3.
- ☐
- a. rational and repeating;
-
- ☒
- b. rational and terminating;
-
- ☐
- c. irrational;
-
- ☐
- d. rational and terminating;
-
- ☐
- e. irrational

- 4.
- ☐
- a. positive, irrational; right
-
- ☒
- b. negative, rational; left
-
- ☐
- c. positive, rational; right
-
- ☐
- d. negative, irrational; left
-
- ☐
- e. positive, rational; right

5.

	N	W	I	Q	Q'
a. $-\frac{15}{7}$				X	X
b. 0			X	X	X
c. $\sqrt{169}$	X	X	X	X	
d. $\sqrt{24}$					X
e. 4.763763763...				X	

- 6.
- ☐
- a. 10
- ☒
- b. 2
- ☐
- c. 4.5
- ☐
- d. 25
-
- ☐
- e. 26

- 7.
- ☐
- a. 11, commutative property of multiplication, associative property of multiplication, inverse property of multiplication, identity property of multiplication;
-
- ☒
- b. 33, distributive property;
-
- ☐
- c. 26, distributive property;
-
- ☐
- d.
- $\frac{4}{3}$
- , commutative property of addition, associative property of addition, inverse property of addition, identity property of addition;
-
- ☐
- e. 0, distributive property, inverse property of addition, identity property of addition

8.

	Constants	Variables
a. $2x(r + k)$	2, x	r , k
b. $2(L + W)$	2	L , W
c. $4y^3 + y$	4	y

- 9.
- ☐
- a. 5;
- ☒
- b. 11;
- ☐
- c. 9;
- ☐
- d. 26

10. ☐ a. 4; ☒ b. 11; ☐ c. $\frac{121}{9}x$;
☐ d. 1728; ☐ e. 3

11. 1,152 cm²

12. ☐ a. $-2y-2z$ or $-2(y+z)$;
☒ b. $\frac{2}{3}-1$; ☐ c. $3pq-4p+q$;
☐ d. $7r-2s+6$

13. $A = P(1 + r)$

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Peipei Pang



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