

Answer Key

Chapter 1

Try It

1.1 Real Numbers: Algebra Essentials

1. A; B; C; D

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.

	A	W	Z	Q	Q'
a. $-\frac{35}{7}$			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; 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; $\frac{a}{b}$, 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. $2\pi r(r + h)$	$2, \pi$	r, h
b. $2(L + W)$	2	L, W
c. $4y^3 + y$	4	y

9. A; B; C; D; E; 26

10. A; 4; B; 11; C; $\frac{121}{3}\pi$; 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. $A = P(1 + rt)$

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Peipei Pang

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