

PRACTICE

Section 1.1

Copy or print out the chart below. Put a check mark in each box for which the number on the left belongs in the set at the top. Do not put any marks if it is not in the set.

		Natural	Whole	Integer	Rational	Irrational	Real	Imaginary	Complex
1.	-4			✓	✓		✓		
2.	$\frac{3}{5}$				✓		✓		
3.	$\sqrt{5}$					✓	✓		
4.	π					✓	✓		
5.	3.25				✓		✓		
6.	-100			✓	✓		✓		
7.	$\sqrt{-3}$							✓	
8.	$-\sqrt{3}$				✓		✓		
9.	0		✓	✓	✓		✓		
10.	-12			✓	✓		✓		
11.	1.3333...				✓		✓		
12.	500	✓	✓	✓	✓		✓		
13.	i							✓	
14.	10.5				✓		✓		
15.	$3 + 4i$								✓

Section 1.2

Use the order of operations to simplify each expression.

16. $4 + 2 \times 5$ 14
17. $10 - 9 \div 3$ 7
18. $6 - [3 \cdot 5 + 2]$ -11
19. $10 - [6 - 2 \cdot 2 + (8 - 3)]$ 3
20. $\frac{4^2 - 3 + 2}{2^3 - (5 - 4)}$ $\frac{15}{7}$
21. $2x - [3x + (x - 2)]$ $-2x + 2$
22. $8[2x - \frac{1}{2}(6x + 4)]$ $-8x - 16$