## Chapter 2 Practice Exercises (Solutions at www.789adam.com)

## Numbers

 Circle the Rational Numbers: (18 (4) $-\frac{2}{3}-\sqrt{5}$ 2.67 100 2.7 (18 $\pi$

Circle the Integers:
$-1.5 \quad \frac{3}{4}$
(12) (23)
$0 . \overline{5}$
-99
(0) $\pi$
(1) - 0.25

Circle the Real Numbers:
(3) - $-\frac{1}{5}$

2001
$0.37 \pi 0$
$19 . \overline{61}$
( 73

## Operators

Explain the difference between $\sqrt{16}+9$ and $\sqrt{16+9}$.
In the first one, we perform $\sqrt{16}$ first then add $9: 4+9=13$
In the second, we add first then take the square root: $\sqrt{25}=5$ What is $41 \div 0$ ?
This does not exist because division by Zero is undefined Apply Correct Order of Operations


| $10+12 \div 2$ | $\frac{(12+2) \div 7}{10-4 \cdot 2}$ | $(8+4) \div 2+3^{2} \div 3$ | $(1+2)^{3}$ |
| :---: | :---: | :---: | :---: |
| $10+6$ | $\frac{14 \div 7}{10-8}$ | $12 \div 2+3^{2} \div 3$ | $3^{3}$ |
| 16 | $\frac{2}{2}$ | $6+2+9 \div 3$ | 27 |
|  | 1 | $6+3$ |  |
| $(10+12) \div 2$ | $4 \cdot 3^{2}$ | 9 |  |
| $22 \div 2$ | $4 \cdot 9$ | $\sqrt{5^{2}}$ | $\sqrt{\sqrt{16}}$ |
| 11 | 36 | $\sqrt{25}$ | $\sqrt{4}$ |
|  |  | 5 | 2 |

