

Answer Key

Quantitative Review

1. $\frac{2}{3}$
 $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$
2. $\frac{1}{3}$
 $\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$
3. $\frac{1}{2}$
 $\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$
4. $\frac{2}{3}$
 $\frac{2}{3} = \frac{2 \times 2}{3 \times 2} = \frac{4}{6}$
5. $\frac{1}{2}$
 $\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$
6. Commutative property of addition
7. Associative property of addition
8. Identity property of addition
9. Inverse property of addition
10. Distributive property
11. Inverse property of multiplication: $100 \cdot \frac{1}{100}$
 $100 \cdot 100 = 10,000$ $100 \cdot 10 = 1,000$ $100 \cdot 10^2 = 10,000$ $100 \cdot 10^3 = 100,000$
 $100 \cdot 10^4 = 10,000,000$ $100 \cdot 10^5 = 10,000,000,000$
 $100 \cdot 10^6 = 100,000,000,000,000$ $100 \cdot 10^7 = 10,000,000,000,000,000$
 $100 \cdot 10^8 = 10,000,000,000,000,000,000$ $100 \cdot 10^9 = 10,000,000,000,000,000,000,000$
 $100 \cdot 10^{10} = 10,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{11} = 10,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{12} = 10,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{13} = 10,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{14} = 10,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{15} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{16} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{17} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{18} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{19} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000$
 $100 \cdot 10^{20} = 10,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000,000$
12. $a = \frac{1}{b}$ $100 \cdot a = \frac{100}{b}$ $100 \cdot b = \frac{100}{a}$ $100 \cdot ab = \frac{100}{ab}$
13. $a = \frac{1}{b}$
14. $a = \frac{1}{b}$
15. $a = \frac{1}{b}$
16. $a = \frac{1}{b}$

17. $a = 0$
 $\frac{a}{a} = \frac{0}{0}$
18. $-2a + a + 2a$
 $1a + 2a = 3a$
19. $3a + 0$ $3a + \frac{2}{3}a = 3\frac{2}{3}a$ $3a + 2a = 5a$
20. $3a + 0$ $3a + 2a = 5a$ $3a + 2a = 5a$
21. $-2a + a + 2a$
 $1a + 2a = 3a$
22. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
23. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
24. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
25. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
26. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
27. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
28. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
29. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
30. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
31. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
32. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
33. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
34. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
35. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
36. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
37. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
38. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
39. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$
40. $a + 0 = a$ $a + a = 2a$ $a + a + a = 3a$