



Properties of Subtraction

- 1) What is the result of subtracting 0 from any number?
- 2) What is the result of subtracting a number from itself?
- 3) Is subtraction commutative (i.e, is $a-b=b-a$)?
- 4) Is subtraction associative (i.e., is $(a-b)-c=a-(b-c)$)?
- 5) If $a = b+c$, what is $a-b$?
- 6) If $a = b+c$, what is $a-c$?

Subtracting Across Zeros:

$$\begin{array}{r} 1) \ 5000 \\ - 1234 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2) \ 7000 \\ - \ 456 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3) \ 8000 \\ - \ 789 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4) \ 6000 \\ - 3210 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5) \ 9000 \\ - 2345 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6) \ 3000 \\ - 123 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7) \ 10000 \\ - \ 5678 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8) \ 20000 \\ - \ 9876 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9) \ 15000 \\ - \ 1234 \\ \hline \\ \hline \end{array}$$



Properties of Subtraction

- 1) The result is the same number.
- 2) The result is 0.
- 3) No, subtraction is not commutative.
- 4) No, subtraction is not associative.
- 5) $a - b = c$
- 6) $a - c = b$

Subtracting Across Zeros:

$$\begin{array}{r} 1) \ 5000 \\ - 1234 \\ \hline 3766 \end{array}$$

$$\begin{array}{r} 2) \ 7000 \\ - 456 \\ \hline 6544 \end{array}$$

$$\begin{array}{r} 3) \ 8000 \\ - 789 \\ \hline 7211 \end{array}$$

$$\begin{array}{r} 4) \ 6000 \\ - 3210 \\ \hline 2790 \end{array}$$

$$\begin{array}{r} 5) \ 9000 \\ - 2345 \\ \hline 6655 \end{array}$$

$$\begin{array}{r} 6) \ 3000 \\ - 123 \\ \hline 2877 \end{array}$$

$$\begin{array}{r} 7) \ 10000 \\ - 5678 \\ \hline 4322 \end{array}$$

$$\begin{array}{r} 8) \ 20000 \\ - 9876 \\ \hline 10124 \end{array}$$

$$\begin{array}{r} 9) \ 15000 \\ - 1234 \\ \hline 13766 \end{array}$$