# EXTRA PRACTICE - Exercises



## Unit I – The Structure of Mathematics
## Part C – Further Investigation of Operation Symbols
## **Lesson 3 – Properties of Operations with Special Numbers**

State which special property concerning 0 or 1 is used to justify each step indicated in the following problems.

1. $\left\{\left(\frac{1}{7}\right)7\right\}+\left[5\ (4-4)+7\right]\frac{1}{8}=1$

   *a.* $\{\ \ 1\ \ +\left[5\ (4-4)+7\right]\}\ \frac{1}{8}=1$

   *b.* $\{\ \ 1\ \ +\left[5\ \ \ 0\ \ \ +7\right]\}\ \frac{1}{8}=1$

   *c.* $\{\ \ 1\ \ +\left[\ \ \ 0\ \ \ \ +7\right]\}\ \frac{1}{8}=1$

   *d.* $\{\ \ 1\ \ +\ \ \ \ \ 7\ \ \ \ \}\ \frac{1}{8}=1$

   $\qquad\qquad 8\qquad\qquad\quad \frac{1}{8}=1$

2. $\left\{6\ 1+\left[(9-9)+4\div\left(\frac{2}{3}\ \frac{3}{2}\right)\right]\right\}=10.$

   *a.* $\left\{6\ \ +\left[(9-9)+4\div\left(\frac{2}{3}\ \frac{3}{2}\right)\right]\right\}=10$

   *b.* $\left\{6\ \ +\left[\ \ 0\ \ \ +4\div\left(\frac{2}{3}\ \frac{3}{2}\right)\right]\right\}=10$

   *c.* $\{6\ \ +[\ \ \ 0\ \ \ +4\div\ \ \ 1\ \ \ ]\}=10$

   *d.* $\{6\ \ +[\ \ \ 0\ \ \ +4\ \ \ \ \ \ \ \ \ ]\}=10$

   *e.* $\{6\ \ +\ \ \ \ \ \ \ \ 4\ \ \ \ \ \ \ \ \}=10$

   $\qquad\qquad\qquad\quad 10\qquad\qquad\quad =10$

# EXTRA PRACTICE — Answer Key



## Unit I – The Structure of Mathematics
## Part C – Further Investigation of Operation Symbols
## **Lesson 3 – Properties of Operations with Special Numbers**

State which special property concerning 0 or 1 is used to justify each step indicated in the following problems.

1. a. Multiplicative Inverse Property

   b. Additive Inverse Property

   c. Multiplication Property of Zero

   d. Identity Property of Addition

2. a. Identity Property of Multiplication

   b. Additive Inverse Property

   c. Multiplicative Inverse Property

   d. Identity Property of Division

   e. Identity Property of Addition