

## Answers Key

### Quantitative Review

1.

$$\frac{10}{10 + 10 + 10} = \frac{10}{30}$$

2.

$$\frac{10}{10 + 10 + 10 + 10} = \frac{10}{40}$$

3.

$$\frac{10}{10 + 10 + 10 + 10 + 10} = \frac{10}{50}$$

4. Commutative property of addition

5. Associative property of addition

6. Identity property of addition

7a. Inverse property of addition

7b. Distributive property

7c. Inverse property of multiplication.  $100 \cdot 10^2$

$100 = 10^2$ ,  $100 \cdot 10^2 = 10^4$ ,  $100 \cdot 10^3 = 10^5$ ,  $100 \cdot 10^4 = 10^6$

$100 = 10^2$ ,  $100 \cdot 10^2 \cdot 10^2 = 10^6$ ,  $100 \cdot 10^2 \cdot 10^3 = 10^7$

$100 \cdot 10^2 \cdot 10^3 = 10^7$ ,  $100 \cdot 10^2 \cdot 10^4 = 10^8$ ,  $100 \cdot 10^3 = 10^5$

$100 \cdot 10^3 \cdot 10^3 = 10^6$ ,  $100 \cdot 10^3 \cdot 10^4 = 10^7$ ,  $100 \cdot 10^4 = 10^6$

$100 \cdot 10^4 = 10^6$ ,  $100 \cdot 10^4 \cdot 10^4 = 10^8$ ,  $100 \cdot 10^4 \cdot 10^5 = 10^9$

$100 \cdot 10^5 = 10^7$ ,  $100 \cdot 10^5 \cdot 10^5 = 10^9$ ,  $100 \cdot 10^5 \cdot 10^6 = 10^{10}$

$100 \cdot 10^6 = 10^8$ ,  $100 \cdot 10^6 \cdot 10^6 = 10^{10}$ ,  $100 \cdot 10^6 \cdot 10^7 = 10^{11}$

$100 \cdot 10^7 = 10^9$ ,  $100 \cdot 10^7 \cdot 10^7 = 10^{11}$ ,  $100 \cdot 10^7 \cdot 10^8 = 10^{12}$

$100 \cdot 10^8 = 10^{10}$ ,  $100 \cdot 10^8 \cdot 10^8 = 10^{12}$ ,  $100 \cdot 10^8 \cdot 10^9 = 10^{13}$

$100 \cdot 10^9 = 10^{11}$ ,  $100 \cdot 10^9 \cdot 10^9 = 10^{13}$ ,  $100 \cdot 10^9 \cdot 10^{10} = 10^{14}$

$100 \cdot 10^{10} = 10^{12}$ ,  $100 \cdot 10^{10} \cdot 10^{10} = 10^{14}$ ,  $100 \cdot 10^{10} \cdot 10^{11} = 10^{15}$

$100 \cdot 10^{11} = 10^{13}$ ,  $100 \cdot 10^{11} \cdot 10^{11} = 10^{15}$ ,  $100 \cdot 10^{11} \cdot 10^{12} = 10^{16}$

$100 \cdot 10^{12} = 10^{14}$ ,  $100 \cdot 10^{12} \cdot 10^{12} = 10^{16}$ ,  $100 \cdot 10^{12} \cdot 10^{13} = 10^{17}$

$100 \cdot 10^{13} = 10^{15}$ ,  $100 \cdot 10^{13} \cdot 10^{13} = 10^{17}$ ,  $100 \cdot 10^{13} \cdot 10^{14} = 10^{18}$

$100 \cdot 10^{14} = 10^{16}$ ,  $100 \cdot 10^{14} \cdot 10^{14} = 10^{18}$ ,  $100 \cdot 10^{14} \cdot 10^{15} = 10^{19}$

$100 \cdot 10^{15} = 10^{17}$ ,  $100 \cdot 10^{15} \cdot 10^{15} = 10^{19}$ ,  $100 \cdot 10^{15} \cdot 10^{16} = 10^{20}$

$100 \cdot 10^{16} = 10^{18}$ ,  $100 \cdot 10^{16} \cdot 10^{16} = 10^{20}$ ,  $100 \cdot 10^{16} \cdot 10^{17} = 10^{21}$

$100 \cdot 10^{17} = 10^{19}$ ,  $100 \cdot 10^{17} \cdot 10^{17} = 10^{21}$ ,  $100 \cdot 10^{17} \cdot 10^{18} = 10^{22}$

$100 \cdot 10^{18} = 10^{20}$ ,  $100 \cdot 10^{18} \cdot 10^{18} = 10^{22}$ ,  $100 \cdot 10^{18} \cdot 10^{19} = 10^{23}$

$100 \cdot 10^{19} = 10^{21}$ ,  $100 \cdot 10^{19} \cdot 10^{19} = 10^{23}$ ,  $100 \cdot 10^{19} \cdot 10^{20} = 10^{24}$

$100 \cdot 10^{20} = 10^{22}$ ,  $100 \cdot 10^{20} \cdot 10^{20} = 10^{24}$ ,  $100 \cdot 10^{20} \cdot 10^{21} = 10^{25}$

88.  $a + 0 = a$

$$\frac{100 + 100 + 100}{100 + 100 + 100 + 100}$$

89.  $-250 \div 2 = -125$

$$\frac{100 + 100}{100 + 100 + 100 + 100}$$

90.  $50a + 0 = 50a$     91.  $\frac{50}{50} \cdot 2 = 2$     92.  $100a + 0 = 100a$

93.  $100 + 0 = 100$     94.  $100a + 100 = 100(1 + a)$

95.  $-10 \div 2 = -5$     96.  $a + 2 = a + 2$

97.  $-10 \div 2 = -5$     98.  $a + 2 = a + 2$

99.  $a + 0 = a$     100.  $a + 2 = a + 2$

101.  $a + 0 = a$     102.  $a + 2 = a + 2$

103.  $a + 0 = a$     104.  $a + 2 = a + 2$

105.  $a + 0 = a$     106.  $a + 2 = a + 2$

107.  $a + 0 = a$     108.  $a + 2 = a + 2$

109.  $a + 0 = a$     110.  $a + 2 = a + 2$

111.  $a + 0 = a$     112.  $a + 2 = a + 2$

113.  $a + 0 = a$     114.  $a + 2 = a + 2$

115.  $a + 0 = a$     116.  $a + 2 = a + 2$

117.  $a + 0 = a$     118.  $a + 2 = a + 2$

119.  $a + 0 = a$     120.  $a + 2 = a + 2$

121.  $a + 0 = a$     122.  $a + 2 = a + 2$

123.  $a + 0 = a$     124.  $a + 2 = a + 2$

125.  $a + 0 = a$     126.  $a + 2 = a + 2$

127.  $a + 0 = a$     128.  $a + 2 = a + 2$

129.  $a + 0 = a$     130.  $a + 2 = a + 2$

131.  $a + 0 = a$     132.  $a + 2 = a + 2$

133.  $a + 0 = a$     134.  $a + 2 = a + 2$

135.  $a + 0 = a$     136.  $a + 2 = a + 2$

137.  $a + 0 = a$     138.  $a + 2 = a + 2$

139.  $a + 0 = a$     140.  $a + 2 = a + 2$

141.  $a + 0 = a$     142.  $a + 2 = a + 2$

143.  $a + 0 = a$     144.  $a + 2 = a + 2$

145.  $a + 0 = a$     146.  $a + 2 = a + 2$

147.  $a + 0 = a$     148.  $a + 2 = a + 2$

149.  $a + 0 = a$     150.  $a + 2 = a + 2$

151.  $a + 0 = a$     152.  $a + 2 = a + 2$

153.  $a + 0 = a$     154.  $a + 2 = a + 2$

155.  $a + 0 = a$     156.  $a + 2 = a + 2$

157.  $a + 0 = a$     158.  $a + 2 = a + 2$

159.  $a + 0 = a$     160.  $a + 2 = a + 2$

161.  $a + 0 = a$     162.  $a + 2 = a + 2$

163.  $a + 0 = a$     164.  $a + 2 = a + 2$

165.  $a + 0 = a$     166.  $a + 2 = a + 2$

167.  $a + 0 = a$     168.  $a + 2 = a + 2$

169.  $a + 0 = a$     170.  $a + 2 = a + 2$

171.  $a + 0 = a$     172.  $a + 2 = a + 2$

173.  $a + 0 = a$     174.  $a + 2 = a + 2$

175.  $a + 0 = a$     176.  $a + 2 = a + 2$

177.  $a + 0 = a$     178.  $a + 2 = a + 2$

179.  $a + 0 = a$     180.  $a + 2 = a + 2$

181.  $a + 0 = a$     182.  $a + 2 = a + 2$

183.  $a + 0 = a$     184.  $a + 2 = a + 2$

185.  $a + 0 = a$     186.  $a + 2 = a + 2$

187.  $a + 0 = a$     188.  $a + 2 = a + 2$

189.  $a + 0 = a$     190.  $a + 2 = a + 2$

191.  $a + 0 = a$     192.  $a + 2 = a + 2$

193.  $a + 0 = a$     194.  $a + 2 = a + 2$

195.  $a + 0 = a$     196.  $a + 2 = a + 2$

197.  $a + 0 = a$     198.  $a + 2 = a + 2$

199.  $a + 0 = a$     200.  $a + 2 = a + 2$

201.  $a + 0 = a$     202.  $a + 2 = a + 2$

203.  $a + 0 = a$     204.  $a + 2 = a + 2$

205.  $a + 0 = a$     206.  $a + 2 = a + 2$

207.  $a + 0 = a$     208.  $a + 2 = a + 2$

209.  $a + 0 = a$     210.  $a + 2 = a + 2$

211.  $a + 0 = a$     212.  $a + 2 = a + 2$

213.  $a + 0 = a$     214.  $a + 2 = a + 2$