

Answer Key 1

Page 50: 1-4, 11-12, 21-28, 95-100, 101-106, 111-116, 117-120, 121-124, 125-138, 141-154, 157-164, 167-170, 171-176

<p>1. a) natural numbers $\sqrt{4}$ b) integers -1, $\sqrt{4}$ c) rational numbers -1, 4.5, 2/5, -1/7, $\sqrt{4}$ d) irrational numbers $\sqrt{5}$</p>	<p>2. a) natural numbers 10 b) integers 10, -3 c) rational numbers 10, -3, 4/5, -3.16, -19/11 d) irrational numbers π</p>	<p>3. a) natural numbers 30/2, 2 b) integers 30/2, 2 c) rational numbers 30/2, 2, 1.5, -10/7 d) irrational numbers $-\pi, -\sqrt{3}$</p>
<p>4. a) natural numbers 33 b) integers 33, -92 c) rational numbers 3.75, 33, 2/3, 1/10, -92 d) irrational numbers $-\pi/4$</p>	<p>11. $-1/10 < 4$ 12. $25/3 > 5/3$</p>	<p>21. $-8.5 = 8.5$ 22. $-9.6 = 9.6$ 23. $3.4 = 3.4$ 24. $5.98 = 5.98$ 25. $- -6.2 = -6.2$ 26. $- -7/9 = -7/9$</p>
<p>27. $- 8/5 = -8/5$ 28. $- 4 = -4$</p>	<p>95. 137 - prime 96. 296 - composite 97. 839 - prime 98. 909 - composite 99. 1764 - composite 100. 1847 - prime</p>	<p>101. $264 = 2 \times 2 \times 2 \times 3 \times 11$ 102. $195 = 3 \times 5 \times 13$ 103. $378 = 2 \times 3 \times 3 \times 3 \times 7$ 104. $858 = 2 \times 3 \times 11 \times 13$ 105. $1612 = 2 \times 2 \times 13 \times 31$ 106. 1787 = 1787 (prime)</p>
<p>111. GCF(54,90)=18 112. GCF(154,220)=22 113. GCF(2,6,9)=1 114. GCF(8,12,24)=4 115. GCF(63,84,221)=21 116. GCF(99,132,253)=11</p>	<p>117. $3/12 = 1/4$ 118. $15/25 = 3/5$ 119. $30/48 = 5/8$ 120. $126/162 = 7/9$</p>	<p>121. $2/3 = 10/15$ 122. $3/7 = 12/28$ 123. $6/10 = 15/25$ 124. $9/12 = 12/16$</p>
<p>125. $3/25 + 7/25 = 2/5$ 126. $9/64 + 7/64 = 1/4$ 127. $27/16 - 15/16 = 3/4$ 128. $-5/12 + 1/12 = -1/3$ 129. $3/8 + 1/2 = 7/8$ 130. $7/12 + 5/18 = 31/16$</p>	<p>131. $-5/9 + 2/3 = 1/9$ 132. $7/15 - 2/25 = 29/75$ 133. $-25/32 + -7/24 = -103/96$ 134. $-7/8 - 11/12 = -43/24$ 135. $5 - 15/4 = 5/4$ 136. $12/5 - 3 = -3/5$</p>	<p>137. $5\frac{4}{5} - 3\frac{5}{8} = \frac{17}{8}$ 138. $-3\frac{7}{10} + 1\frac{1}{20} = -\frac{53}{20}$</p>
<p>141. $5/8 \times -2/15 = -1/12$ 142. $3/32 \times 32/3 = 1$ 143. $35 \times 1/35 = 1$ 144. $-6 \times 5/36 = -5/6$ 145. $3/8 \times -2/27 = -1/36$</p>	<p>146. $-5/12 \times -4/25 = 1/15$ 147. $(5/14)/(15/28) = 2/3$ 148. $(-7/10)/(4/15) = -21/8$ 149. $(-3/4)/(-7/8) = 6/7$ 150. $(15/32)/(-5/4) = -3/8$</p>	<p>151. $(-5/9)/0$ - undefined 152. $0/(1/12) = 0$ 153. $-5 \times 0 = 0$ 154. $0 \times (1/2) = 0$</p>

157. $4.89+0.76 = 5.65$	167. $6 \times 6 \times 6 \times 6 \times 6 = 6^5$	171. $2^4 = 16$
158. $1.29+0.44=1.73$	168. $-3 \times -3 \times -3 = (-3)^3$	172. $(-6)^2 = 36$
159. $3.815-5.19 = -1.38$	169.	173. $\left(-\frac{3}{4}\right)^2 = -\frac{27}{64}$
160. $7.234-8.16=-0.93$	$\left(\frac{6}{7}\right) \cdot \left(\frac{6}{7}\right) \cdot \left(\frac{6}{7}\right) \cdot \left(\frac{6}{7}\right) = \left(\frac{6}{7}\right)^4$	174. $\left(\frac{2}{3}\right)^2 = \frac{4}{9}$
161. $1.49(-0.5) = -0.75$	170.	175. $-7^2 = -49$
162. $2.34(-1.2) = -2.81$	$-[(3.3) \cdot (3.3)] = -(3.3)^2$	176. $-(-3)^3 = 27$
163. $5.25/0.25 = 21$		
164. $10.18/1.6 = 6.36$		