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Absolute value equations worksheet hard

Solving Linear Equations

Red: What operation? Yellow: Move onto the Green: What about that?

1. $2x + 3 = 7$ 2. $5y - 2 = 8$ 3. $3z + 1 = 4$

4. $4x + 1 = 5$ 5. $6y - 3 = 9$ 6. $7z - 2 = 10$

7. $8x + 2 = 14$ 8. $9y - 4 = 11$ 9. $10z - 1 = 19$

10. $11x + 3 = 22$ 11. $12y - 5 = 17$ 12. $13z + 2 = 25$

13. $14x - 1 = 13$ 14. $15y + 4 = 19$ 15. $16z - 3 = 17$

16. $17x + 2 = 24$ 17. $18y - 6 = 12$ 18. $19z + 1 = 20$

19. $20x - 4 = 16$ 20. $21y + 3 = 24$ 21. $22z - 2 = 28$

22. $23x + 5 = 31$ 23. $24y - 7 = 17$ 24. $25z + 4 = 29$

25. $26x - 3 = 23$ 26. $27y + 6 = 33$ 27. $28z - 5 = 27$

28. $29x + 1 = 30$ 29. $30y - 8 = 22$ 30. $31z + 2 = 33$

31. $32x - 4 = 28$ 32. $33y + 9 = 42$ 33. $34z - 6 = 38$

34. $35x + 3 = 38$ 35. $36y - 10 = 26$ 36. $37z + 7 = 44$

37. $38x - 5 = 33$ 38. $39y + 11 = 50$ 39. $40z - 9 = 31$

40. $41x + 6 = 47$ 41. $42y - 12 = 30$ 42. $43z + 8 = 51$

43. $44x - 7 = 37$ 44. $45y + 13 = 58$ 45. $46z - 10 = 36$

46. $47x + 8 = 55$ 47. $48y - 14 = 34$ 48. $49z + 9 = 68$

49. $50x - 9 = 41$ 50. $51y + 15 = 66$ 51. $52z - 11 = 45$

52. $53x + 10 = 63$ 53. $54y - 16 = 38$ 54. $55z + 10 = 65$

55. $56x - 11 = 45$ 56. $57y + 17 = 74$ 57. $58z - 12 = 46$

58. $59x + 12 = 71$ 59. $60y - 18 = 42$ 60. $61z + 11 = 72$

61. $62x - 13 = 49$ 62. $63y + 19 = 82$ 63. $64z - 13 = 51$

64. $65x + 14 = 79$ 65. $66y - 20 = 46$ 66. $67z + 12 = 80$

67. $68x - 14 = 54$ 68. $69y + 21 = 91$ 69. $70z - 14 = 60$

70. $71x + 15 = 86$ 71. $72y - 22 = 50$ 72. $73z + 13 = 88$

73. $74x - 15 = 59$ 74. $75y + 23 = 104$ 75. $76z - 15 = 65$

76. $77x + 16 = 93$ 77. $78y - 24 = 58$ 78. $79z + 14 = 97$

79. $80x - 16 = 64$ 80. $81y + 25 = 110$ 81. $82z - 16 = 74$

82. $83x + 17 = 101$ 83. $84y - 26 = 62$ 84. $85z + 15 = 106$

85. $86x - 17 = 71$ 86. $87y + 27 = 127$ 87. $88z - 17 = 83$

88. $89x + 18 = 119$ 89. $90y - 28 = 70$ 90. $91z + 16 = 114$

91. $92x - 18 = 80$ 92. $93y + 29 = 140$ 93. $94z - 18 = 92$

94. $95x + 19 = 131$ 95. $96y - 30 = 84$ 96. $97z + 17 = 135$

97. $98x - 19 = 97$ 98. $99y + 31 = 156$ 99. $100z - 19 = 105$

100. $101x + 20 = 146$ 101. $102y - 32 = 94$ 102. $103z + 18 = 142$

103. $104x - 20 = 109$ 104. $105y + 33 = 171$ 105. $106z - 20 = 116$

106. $107x + 21 = 157$ 107. $108y - 34 = 106$ 108. $109z + 19 = 159$

109. $110x - 21 = 121$ 110. $111y + 35 = 192$ 111. $112z - 21 = 125$

112. $113x + 22 = 169$ 113. $114y - 36 = 118$ 114. $115z + 20 = 167$

115. $116x - 22 = 135$ 116. $117y + 37 = 217$ 117. $118z - 22 = 140$

118. $119x + 23 = 181$ 119. $120y - 38 = 130$ 120. $121z + 21 = 184$

121. $122x - 23 = 147$ 122. $123y + 39 = 246$ 123. $124z - 23 = 154$

124. $125x + 24 = 195$ 125. $126y - 40 = 142$ 126. $127z + 22 = 199$

127. $128x - 24 = 163$ 128. $129y + 41 = 271$ 129. $130z - 24 = 168$

130. $131x + 25 = 203$ 131. $132y - 42 = 156$ 132. $133z + 23 = 207$

133. $134x - 25 = 179$ 134. $135y + 43 = 300$ 135. $136z - 25 = 181$

136. $137x + 26 = 211$ 137. $138y - 44 = 170$ 138. $139z + 24 = 216$

139. $140x - 26 = 195$ 140. $141y + 45 = 327$ 141. $142z - 26 = 196$

142. $143x + 27 = 223$ 143. $144y - 46 = 184$ 144. $145z + 25 = 225$

145. $146x - 27 = 209$ 146. $147y + 47 = 350$ 147. $148z - 27 = 209$

148. $149x + 28 = 235$ 149. $150y - 48 = 198$ 150. $151z + 26 = 234$

151. $152x - 28 = 223$ 152. $153y + 49 = 375$ 153. $154z - 28 = 227$

154. $155x + 29 = 247$ 155. $156y - 50 = 210$ 156. $157z + 27 = 243$

157. $158x - 29 = 241$ 158. $159y + 51 = 396$ 159. $160z - 29 = 245$

160. $161x + 30 = 259$ 161. $162y - 52 = 222$ 162. $163z + 28 = 252$

163. $164x - 30 = 239$ 164. $165y + 53 = 420$ 165. $166z - 30 = 257$

166. $167x + 31 = 267$ 167. $168y - 54 = 234$ 168. $169z + 29 = 261$

169. $170x - 31 = 255$ 170. $171y + 55 = 450$ 171. $172z - 31 = 265$

172. $173x + 32 = 275$ 173. $174y - 56 = 246$ 174. $175z + 30 = 270$

175. $176x - 32 = 263$ 176. $177y + 57 = 480$ 177. $178z - 32 = 269$

178. $179x + 33 = 283$ 179. $180y - 58 = 258$ 180. $181z + 31 = 276$

181. $182x - 33 = 271$ 182. $183y + 59 = 510$ 183. $184z - 33 = 279$

184. $185x + 34 = 293$ 185. $186y - 60 = 270$ 186. $187z + 32 = 284$

187. $188x - 34 = 277$ 188. $189y + 61 = 540$ 189. $190z - 34 = 283$

190. $191x + 35 = 305$ 191. $192y - 62 = 282$ 192. $193z + 33 = 291$

193. $194x - 35 = 285$ 194. $195y + 63 = 570$ 195. $196z - 35 = 287$

196. $197x + 36 = 313$ 197. $198y - 64 = 294$ 198. $199z + 34 = 297$

199. $200x - 36 = 291$ 199. $200y + 65 = 600$ 200. $200z - 36 = 295$

Name : _____ Score : _____
Teacher : _____ Date : _____

- 1) Absolute value of 77 is _____ 2) Absolute value of 67 is _____
- 3) Absolute value of -34 is _____ 4) Absolute value of 16 is _____
- 5) Absolute value of -75 is _____ 6) Absolute value of 4 is _____
- 7) Absolute value of 98 is _____ 8) Absolute value of 51 is _____
- 9) Absolute value of -53 is _____ 10) Absolute value of -43 is _____
- 11) Absolute value of -20 is _____ 12) Absolute value of -79 is _____
- 13) Absolute value of -52 is _____ 14) Absolute value of 18 is _____
- 15) Absolute value of -82 is _____ 16) Absolute value of 46 is _____
- 17) Absolute value of 42 is _____ 18) Absolute value of 38 is _____
- 19) Absolute value of 99 is _____ 20) Absolute value of 22 is _____



The average January temperature in a northern Canadian city is 1 degree Fahrenheit. The actual January temperature for that city may be about 5 degrees warmer or colder. Write and solve an equation to find the minimum and maximum temperatures.

$$|t - 1| = 5$$

$$t - 1 = 5 \quad t - 1 = -5$$

$$\begin{array}{r} t - 1 = 5 \\ + 1 \quad + \\ \hline t = 6 \end{array}$$

Name _____ Date _____

GENERATE EXPRESSIONS SHEET 2 ANSWERS

| | | | | |
|-----------------------------------|---|--------------------|----|----------------|
| 1) 4 more than a | = | a + 4 | or | 4 + a |
| 2) double b | = | 2b | or | b x 2 |
| 3) 10 less than c | = | c - 10 | | |
| 4) a half of d | = | $\frac{1}{2}d$ | or | $d/2$ |
| 5) 8 more than e | = | e + 8 | | |
| 6) 9 subtract f | = | 9 - f | | |
| 7) 4 lots of g | = | 4g | | |
| 8) 7 subtract h | = | 7 - h | | |
| 9) 14 less than i | = | i - 14 | | |
| 10) multiply j by 4 | = | 4j | | |
| 11) divide k by 3 | = | $k/3$ | or | $k \div 3$ |
| 12) double l and add 2 | = | 2l + 2 | | |
| 13) halve m and then subtract 3 | = | $\frac{1}{2}m - 3$ | or | $m/2 - 3$ |
| 14) double n and then add 5 | = | 2n + 5 | | |
| 15) double o and then subtract 3 | = | 2o - 3 | | |
| 16) halve p and then add 6 | = | $\frac{1}{2}p + 6$ | | |
| 17) subtract q from 10 | = | 10 - q | | |
| 18) subtract 10 from q | = | q - 10 | | |
| 19) multiply r by 8 then add 1 | = | 8r + 1 | | |
| 20) divide s by 5 and then | = | $s/5 - 4$ | or | $s \div 5 - 4$ |
| 21) multiply t by 4 and then | = | 4t - 6 | | |
| 22) add 2 to u and then double it | = | 2(u + 2) | or | 2u + 4 |
| 23) subtract 3 from v and then | = | 2(v - 3) | or | 2v - 6 |
| 24) multiply w by 6 and then | = | 6w - 9 | | |

Below you can download some spreadsheets and mathematics. Give a head-to-your practice with the free spreadsheets here. For example, if you choose -2, $2(-2) + 3 = -4 + 3 = -1$. Therefore, $|2x + 3| = -(2x + 3)$ You need to solve $-(2x + 3) = 2 - (2x + 3) = 22x + 3 = -2 \cdot 2x + 3 - 3 = -2 - 32x = -5x = -5 / 2$ SOLUTION = $\{-5/2, -1/2\}$ Example # 2: $|2x + 6| + -3 + |3x - 4| = 9$ $|2x + 6| + -3 + 3 + |3x - 4| = 9 + 3$ $|3x - 4| = 9 + 3$ $|3x - 4| = 12$ This problem is complex because you have several cases to consider. This equation has an absolute expression nested inside another. This can not be true. What if the quadratic is negative? If $2x + 6 \in \mathbb{Y} 0$, $2x \in \mathbb{Y} -6$ and $x \in \mathbb{Y} -3$ if $2x + 6$

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