

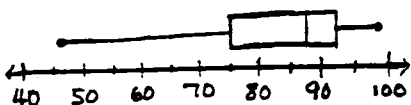
IM ANSWERS

Page 1

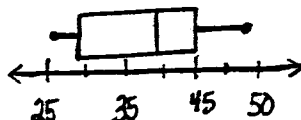
- 1) mean: 61.5, median: 59.5, mode: 54, range: 52
- 2) mean: 54.77, median: 55.6, mode: 55.6, range: 21.31
- 3) mean: 163.16, median: 156, mode: 156, range: 70
- 4) mean: 5.2, median: 7, mode: 8, range: 17
- 5) mean: 15.135, median: 14.5, mode: 13.2, range: 5.80
- 6) Possible solution: 214, 90, 86, 20, 10

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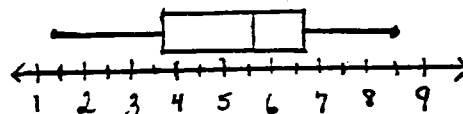
1)
$$\begin{array}{r} 4 \mid 6 \\ 5 \\ 6 \mid 3 \\ 7 \mid 0 \textcircled{5} 9 \\ 8 \mid 3 \ 4 \ \textcircled{7} 8 \ 9 \\ 9 \mid 0 \ \textcircled{2} 4 \ 5 \ 8 \\ \text{KEY } 4 \mid 6 = 46 \end{array}$$



2)
$$\begin{array}{r} 2 \mid 6 \ 9 \ \textcircled{9} \\ 3 \mid 4 \ 4 \ \textcircled{8} \ 8 \\ 4 \mid 2 \ \textcircled{5} \ 5 \ 8 \\ \text{KEY } 2 \mid 6 = 26 \end{array}$$



3)
$$\begin{array}{r} 1 \mid 3 \ 5 \\ 2 \mid 5 \\ 3 \mid \textcircled{7} \\ 4 \mid 6 \ \textcircled{7} \\ 5 \mid 1 \ 4 \ \textcircled{8} \\ 6 \mid 3 \ 4 \ \textcircled{7} \ 8 \\ 7 \\ 8 \mid 4 \ 5 \\ \text{KEY } 1 \mid 3 = 1.3 \end{array}$$



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- 1) 26
- 2) 51
- 3) 11
- 4) 7
- 5) 84
- 6) 20
- 7) 19
- 8) 13
- 9) 71
- 10) 6
- 11) 10
- 12) 17
- 13) 18
- 14) 64

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THE HOWLADAY INN

Page 5

- 1) $A = 150 \text{ cm}^2$
- 2) $I = \$270$
- 3) $S = 900^\circ$
- 4) $r = 75 \text{ mi/hr}$
- 5) $A = 80 \text{ units}^2$
- 6) $P = \$15.50$

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- | | |
|----------------|----------------|
| a. 70° | k. 90° |
| b. 110° | l. 90° |
| c. 110° | m. 90° |
| d. 110° | n. 100° |
| e. 160° | o. 80° |
| f. 70° | p. 50° |
| g. 70° | q. 130° |
| h. 70° | r. 50° |
| i. 20° | |
| j. 90° | |

	Fraction	Decimal	Percent
1.	$\frac{4}{100} = \frac{1}{25}$	0.04	4%
2.	$1\frac{1}{4}$	1.25	125%
3.	$\frac{2}{3}$	$0.\overline{6}$	$66\frac{2}{3}\%$
4.	$1\frac{7}{10}$	1.7	170%
5.	$\frac{6}{1,000} = \frac{3}{500}$	0.006	0.6%
6.	$3\frac{1}{2}$	3.5	350%
7.	$\frac{9}{10}$.9	90%
8.	$\frac{7}{10}$	0.7	70%
9.	$\frac{17}{25}$	0.68	68%
10.	$\frac{7}{1,000}$	0.007	0.7%

A HARE RESTORER

THE ROCKETTES

A JUNK YARD

$$58 = 5x + 3$$

$$x = 11$$

$$48 = 3x + 3$$

$$x = 15$$

$$29 = 5x - 1$$

$$x = 6$$

$$3x + 7 = 28$$

$$x = 7$$

$$4x - 13 = 27$$

$$x = 10$$

$$10 = 8 + x/4$$

$$x = 8$$

$$2x + 1 = 7$$

$$x = 3$$

$$3x - 2 = 10$$

$$x = 4$$

$$9 + x/3 = 13$$

$$x = 12$$

$$7x + 8 = 15$$

$$x = 1$$

$$x/2 + 5 = 6$$

$$x = 2$$

$$18 = 3x/4$$

$$x = 24$$

$$12 + x/5 = 12$$

$$x = 0$$

$$2x/3 = 6$$

$$x = 9$$

1. 17/20
4. 1/12
7. 1/3
10. 1/2

2. 1 11/21
5. 8/45
8. 9/20
11. 1

3. 1 13/45
6. 23/55
9. 7/20
12. 21/55

1. 10 3/4
4. 1 11/20
7. 10 7/12
10. 5 1/5

2. 10 13/15
5. 4 1/4
8. 7 11/12
11. 3 1/2

3. 9 1/10
6. 1 1/5
9. 6 8/9
12. 1/8

- 1) $y = -1, -3, -2, -5$
- 4) $y = 5, 3, 1, -1$

- 2) $y = 1, 3, -1, 4$
- 5) $y = -2, 0, 2, -4$

- 3) $y = -1, -4, 2, 5$
- 6) $y = -4, 3, -2, 1$

- | | | |
|---------------------|-----------------------|----------------------|
| 1. 15 | 2. $3 \frac{1}{3}$ | 3. $5 \frac{28}{45}$ |
| 4. $\frac{40}{117}$ | 5. $\frac{77}{93}$ | 6. $10 \frac{2}{7}$ |
| 7. $2 \frac{4}{25}$ | 8. $10 \frac{2}{7}$ | 9. $3 \frac{23}{27}$ |
| 10. $\frac{3}{11}$ | 11. $1 \frac{11}{28}$ | 12. $\frac{33}{40}$ |

<u>Part A</u>	<u>Part B</u>
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- | | |
|--------------|---------------|
| 1. $x = -21$ | 1. $t = -7$ |
| 2. $t = -5$ | 2. $m = 50$ |
| 3. $t = 3$ | 3. $r = 7.5$ |
| 4. $r = 96$ | 4. $x = -39$ |
| 5. $y = 1$ | 5. $g = -1.8$ |
| 6. $p = -26$ | 6. $y = -24$ |

- | | |
|------------------------|--------------------------|
| 1. 352 m^2 | 2. 678.24 ft^2 |
| 3. 1000 in^2 | 4. 528.4 ft^2 |

- Angles ABC and DBE are acute and angles ABD and CBE are obtuse.
- 47 degrees
- 137 degrees
- Pairs of vertical angles are: Angles RST and VSW

Angles RSV and TSW

Pairs of adjacent angles are: Angles RST and TSW

Angles RST and RSV

Angles RSV and VSW

Angles VSW and WST

- | | |
|-------------|-------------|
| 1. $x = 24$ | 2. $y = 9$ |
| 3. $h = 16$ | 4. $r = 15$ |

- | | | | |
|-------------|--------------|----------|--------------|
| 1) 123.109 | 2) 1233.918 | 3) 31.31 | 4) 496.188 |
| 5) 4103.386 | 6) 8813.293 | 7) 2052 | 8) 0.2001 |
| 9) 18.6984 | 10) 2.5284 | 11) 2.01 | 12) 3.608 |
| 13) 3.256 | 14) 35.31047 | 15) 241 | 16) 1588.788 |
| 17) 112.068 | | | |