

Selected Answers- Middle School Math C Summer Workbook

Page 1:

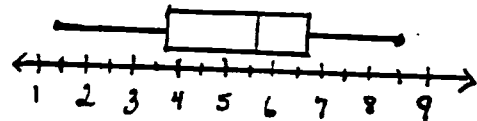
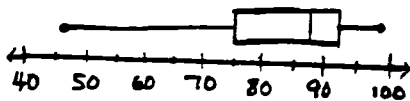
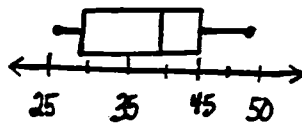
- 1) mean: 61.5, median: 59.5, mode: 54, range: 52
- 2) mean: 54.77, median: 55.6, mode: 55.6, range: 21.31
- 3) mean:  $163.\overline{16}$ , median: 156, mode: 156, range: 70
- 4) mean: 5.2, median: 7, mode: 8, range: 17
- 5) mean: 15.135, median: 14.5, mode: 13.2, range: 5.80
- 6) Possible solution: 214, 90, 86, 20, 10

Page 2:

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

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

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



Page 3:

	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%

Page 4:

- 1) Possible solution: 100, 40, 30, 30, 16, 12
- 2) 72 laps
- 3) 20, 22, 24

4) 
$$\begin{array}{r} \boxed{4} \boxed{5} \boxed{9} \\ \boxed{1} \boxed{2} \boxed{4} \\ \hline \boxed{7} \boxed{7} \boxed{3} \end{array}$$

5)  $x = 5$

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)  $P = \$15.50$

Page 6:

Q: What did the GRAPE do when the elephant sat on it?

A: It LET OUT A LITTLE WINE.

Page 7:

A: HARE RESTORER

Page 8:

THE ROCKETTES

Page 9:

1) -72

2) -15

3) 6

4) 0

5) -1

6) -67

7) -10

8) -8

9) 240

10) -3

11) -80

12) 3

13) -6

14) -39

15) 5

16) 128

17) 24

18) -7

19) 12

20) 12

Page 10:

$58 = 5x + 3$

$x = 11$

$48 = 3x + 3$

$x = 15$

$29 = 5x - 1$

$x = 6$

$3x + 7 = 28$

$x = 7$

$4x - 13 = 27$

$x = 10$

$10 = 8 + x/4$

$x = 8$

$2x + 1 = 7$

$x = 3$

$3x - 2 = 10$

$x = 4$

$x/2 + 5 = 6$

$x = 2$

$18 = 3x/4$

$x = 24$

$12 + x/5 = 12$

$x = 0$

$2x/3 = 6$

$x = 9$

Page 11:

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

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

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

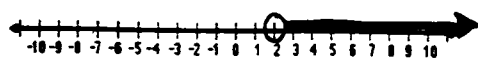
4)  $y = 5, 3, 1, -1$

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

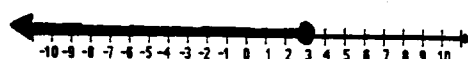
6)  $y = -4, 3, -2, 1$

Page 12:

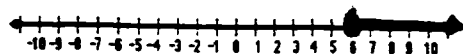
1.  $4x > 8$



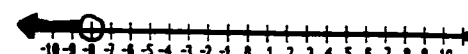
2.  $-5t \geq -15$



3.  $\frac{x}{2} \geq 3$



4.  $\frac{x}{-4} > 2$



**Page 13:**

1.  $x = 4\text{m}$
2.  $x = \sqrt{32}\text{ft}$  or  $5.7\text{ ft}$
3.  $x = 15\text{cm}$
4.  $x = 13\text{ft}$
5.  $x = 25\text{in}$
6.  $y = \sqrt{200}\text{m}$  or  $14.1\text{ m}$

**Page 14:**

AT THE NORTH POLL

**Page 15:**

- 1) acute:  $\angle ABC, \angle DBE$  obtuse:  $\angle ABD, \angle EBC$
- 2)  $47^\circ$       3)  $137^\circ$
- 4) vertical angles:  $\angle TSW \cong \angle RSV$   
 $\angle RST \cong \angle VSW$   
adjacent angles:  $\angle TSW$  and  $\angle WSV$   
 $\angle VSR$  and  $\angle RST$   
 $\angle RST$  and  $\angle TSW$

**Page 16:**

- 1)  $24\text{ ft}$
- 2)  $9\text{m}$
- 3)  $16\text{ft}$
- 4)  $15\text{m}$

**Page 17:**

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

Expense	Dollar Amount	Fraction or %	Degree
Car	\$ 300	$\frac{1}{10}$ 10%	36°
Food	\$ 600	$\frac{1}{5}$ 20%	72°
Mortgage	\$ 1,500	$\frac{1}{2}$ 50%	180°
Other	\$ 600	$\frac{1}{5}$ 20%	72°
TOTAL	\$ 3,000	$\frac{100}{100} = 1$ 100%	360°

