

I'm not robot!

Name _____ Date _____ Class _____

Chapter Test
6 Form A

Monday the closing price was \$12.00. Tuesday it was \$14.00. Wednesday it was \$16.00. Thursday it was \$18.00. Friday the closing price was \$20.00.

1. Make a table.

2. Find the range, mean, median, and mode of the data set.

Quiz Scores: 10 8 9 8 7

The table shows the number of days employees took for vacation.

10	5	9	14	14	12	10	14	12	14
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3. Find the mean, median and mode of the data.

4. Which of the mean, median, and mode best describes the data?

5. Make a bar graph.

Number of TV Advertisements

Food	15	Health	12
Movies	6	TV previews	9
Games/toys	3		

1	2	3	4	2
3	5	1	1	2
2	3	3	3	4
2	1	1	0	3
3	4	5	1	2

6. The data in the table shows the number of videos rented by 25 customers on a given day. Complete the frequency table with the given intervals.

Videos	Frequency
0-1	
2-3	
4-5	

Level 2

Stage	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6	Step 7	Step 8	Step 9
(3, 9)	(0, 9)	(0, 5)	(3, 5)	(3, 0)	(0, 0)	(-3, 0)	(-3, 5)	(-3, 9)	(0, 9)
(4, -4)	(2, 8)	(4, -8)	(6, -4)	(8, 0)	(10, 4)	(12, 8)	(14, -4)	(16, 0)	(18, 4)
(1, -7)	(2, 7)	(5, 7)	(8, -7)	(11, -7)	(14, 7)	(17, 7)	(20, -7)	(23, 7)	(26, 7)
(1, -9)	(4, 7)	(7, -9)	(10, 7)	(13, 7)	(16, -9)	(19, 7)	(22, -9)	(25, 7)	(28, 7)
(5, -9)	(8, 9)	(11, -9)	(14, 9)	(17, -9)	(20, 9)	(23, -9)	(26, 9)	(29, -9)	(32, 9)
(4, -10)	(10, 9)	(13, -10)	(16, 9)	(19, -10)	(22, 9)	(25, -10)	(28, 9)	(31, -10)	(34, 9)
(2, -9)	(12, 9)	(15, -9)	(18, 9)	(21, -9)	(24, 9)	(27, -9)	(30, 9)	(33, -9)	(36, 9)
(3, -7)	(14, 9)	(17, -7)	(20, 9)	(23, -7)	(26, 9)	(29, -7)	(32, 9)	(35, -7)	(38, 9)
(2, -4)	(16, 9)	(19, -4)	(22, 9)	(25, -4)	(28, 9)	(31, -4)	(34, 9)	(37, -4)	(40, 9)
(1, -4)	(18, 9)	(21, -4)	(24, 9)	(27, -4)	(30, 9)	(33, -4)	(36, 9)	(39, -4)	(42, 9)
(4, -2)	(20, 9)	(23, -2)	(26, 9)	(29, -2)	(32, 9)	(35, -2)	(38, 9)	(41, -2)	(44, 9)
(3, -4)	(22, 9)	(25, -4)	(28, 9)	(31, -4)	(34, 9)	(37, -4)	(40, 9)	(43, -4)	(46, 9)
(2, -1)	(24, 9)	(27, -1)	(30, 9)	(33, -1)	(36, 9)	(39, -1)	(42, 9)	(45, -1)	(48, 9)
(1, -1)	(26, 9)	(29, -1)	(32, 9)	(35, -1)	(38, 9)	(41, -1)	(44, 9)	(47, -1)	(50, 9)
(5, -1)	(28, 9)	(31, -1)	(34, 9)	(37, -1)	(40, 9)	(43, -1)	(46, 9)	(49, -1)	(52, 9)
(4, 1)	(30, 9)	(33, 1)	(36, 9)	(39, 1)	(42, 9)	(45, 1)	(48, 9)	(51, 1)	(54, 9)
(3, 1)	(32, 9)	(35, 1)	(38, 9)	(41, 1)	(44, 9)	(47, 1)	(50, 9)	(53, 1)	(56, 9)
(2, 1)	(34, 9)	(37, 1)	(40, 9)	(43, 1)	(46, 9)	(49, 1)	(52, 9)	(55, 1)	(58, 9)
(1, 1)	(36, 9)	(39, 1)	(42, 9)	(45, 1)	(48, 9)	(51, 1)	(54, 9)	(57, 1)	(60, 9)
(6, 1)	(38, 9)	(41, 1)	(44, 9)	(47, 1)	(50, 9)	(53, 1)	(56, 9)	(59, 1)	(62, 9)
(5, 1)	(40, 9)	(43, 1)	(46, 9)	(49, 1)	(52, 9)	(55, 1)	(58, 9)	(61, 1)	(64, 9)
(4, 1)	(42, 9)	(45, 1)	(48, 9)	(51, 1)	(54, 9)	(57, 1)	(60, 9)	(63, 1)	(66, 9)
(3, 1)	(44, 9)	(47, 1)	(50, 9)	(53, 1)	(56, 9)	(59, 1)	(62, 9)	(65, 1)	(68, 9)
(2, 1)	(46, 9)	(49, 1)	(52, 9)	(55, 1)	(58, 9)	(61, 1)	(64, 9)	(67, 1)	(70, 9)
(1, 1)	(48, 9)	(51, 1)	(54, 9)	(57, 1)	(60, 9)	(63, 1)	(66, 9)	(69, 1)	(72, 9)
(7, 1)	(50, 9)	(53, 1)	(56, 9)	(59, 1)	(62, 9)	(65, 1)	(68, 9)	(71, 1)	(74, 9)
(6, 1)	(52, 9)	(55, 1)	(58, 9)	(61, 1)	(64, 9)	(67, 1)	(70, 9)	(73, 1)	(76, 9)
(5, 1)	(54, 9)	(57, 1)	(60, 9)	(63, 1)	(66, 9)	(69, 1)	(72, 9)	(75, 1)	(78, 9)
(4, 1)	(56, 9)	(59, 1)	(62, 9)	(65, 1)	(68, 9)	(71, 1)	(74, 9)	(77, 1)	(80, 9)
(3, 1)	(58, 9)	(61, 1)	(64, 9)	(67, 1)	(70, 9)	(73, 1)	(76, 9)	(79, 1)	(82, 9)
(2, 1)	(60, 9)	(63, 1)	(66, 9)	(69, 1)	(72, 9)	(75, 1)	(78, 9)	(81, 1)	(84, 9)
(1, 1)	(62, 9)	(65, 1)	(68, 9)	(71, 1)	(74, 9)	(77, 1)	(80, 9)	(83, 1)	(86, 9)
(8, 1)	(64, 9)	(67, 1)	(70, 9)	(73, 1)	(76, 9)	(79, 1)	(82, 9)	(85, 1)	(88, 9)
(7, 1)	(66, 9)	(69, 1)	(72, 9)	(75, 1)	(78, 9)	(81, 1)	(84, 9)	(87, 1)	(90, 9)
(6, 1)	(68, 9)	(71, 1)	(74, 9)	(77, 1)	(80, 9)	(83, 1)	(86, 9)	(89, 1)	(92, 9)
(5, 1)	(70, 9)	(73, 1)	(76, 9)	(79, 1)	(82, 9)	(85, 1)	(88, 9)	(91, 1)	(94, 9)
(4, 1)	(72, 9)	(75, 1)	(78, 9)	(81, 1)	(84, 9)	(87, 1)	(90, 9)	(93, 1)	(96, 9)
(3, 1)	(74, 9)	(77, 1)	(80, 9)	(83, 1)	(86, 9)	(89, 1)	(92, 9)	(95, 1)	(98, 9)
(2, 1)	(76, 9)	(79, 1)	(82, 9)	(85, 1)	(88, 9)	(91, 1)	(94, 9)	(97, 1)	(100, 9)
(1, 1)	(78, 9)	(81, 1)	(84, 9)	(87, 1)	(90, 9)	(93, 1)	(96, 9)	(99, 1)	(102, 9)

V. Identifying transformation matrices

For each graph, write the original coordinate matrix M, the transformed matrix M', and the transformation matrix T.

SOLUTIONS

1) $M = \begin{bmatrix} 3 & 5 & 2 \\ 3 & 2 & 0 \end{bmatrix}$ $M' = \begin{bmatrix} 6 & 10 & 4 \\ 6 & 4 & 0 \end{bmatrix}$ $A(3, 3), B(5, 2), C(2, 0)$

$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} 3 & 5 & 2 \\ 3 & 2 & 0 \end{bmatrix} = \begin{bmatrix} 6 & 10 & 4 \\ 6 & 4 & 0 \end{bmatrix}$ $3a + 3b = 6$ $5a + 2b = 10$ $a = 2$

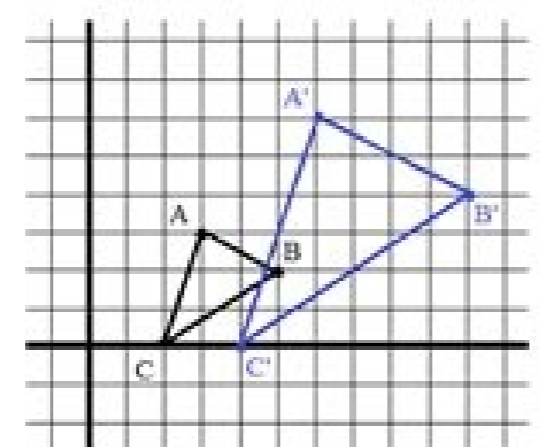
$3c + 3d = 6$ $2a + 0b = 4$ $b = 0$

$5c + 2d = 4$ $c = 0$

$2c + 0d = 0$ $d = 2$

note: this is the same as scalar multiplication $\times 2$

$T = \begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$



2) $M = \begin{bmatrix} -1 & 4 & 4 & 1 \\ -2 & -4 & -5 & -6 \end{bmatrix}$ $M' = \begin{bmatrix} -1/2 & 2 & 2 & 1/2 \\ 1 & 2 & 5/2 & 3 \end{bmatrix}$

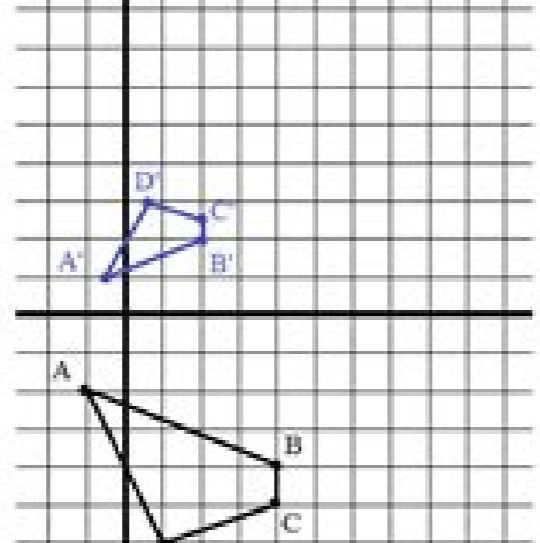
$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} -1 & 4 & 4 & 1 \\ -2 & -4 & -5 & -6 \end{bmatrix} = \begin{bmatrix} -1/2 & 2 & 2 & 1/2 \\ 1 & 2 & 5/2 & 3 \end{bmatrix}$

$-a - 2b = -1/2$ $4a - 4b = 2$ $a = 1/2$ $4c - 4d = 2$ $c = 0$

$4a - 5b = 2$ $b = 0$ $4c - 5d = 5/2$ $d = -1/2$

$a - 6b = 1/2$ $-8b = 0$ $b = 0$ $c - 6d = 3$ $-8d = 4$ $d = -1/2$

(combination method) $T = \begin{bmatrix} 1/2 & 0 \\ 0 & -1/2 \end{bmatrix}$ (reduce by 1/2 and reflected over x-axis)



3) $M = \begin{bmatrix} -2 & -4 & -3 \\ 1 & 5 & 7 \end{bmatrix}$ $M' = \begin{bmatrix} 1 & 5 & 7 \\ 2 & 4 & 3 \end{bmatrix}$

$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} -2 & -4 & -3 \\ 1 & 5 & 7 \end{bmatrix} = \begin{bmatrix} 1 & 5 & 7 \\ 2 & 4 & 3 \end{bmatrix}$

$-2a - 4b = 1$ $-2c + d = 2$ $d = 2c + 2$

$-4a - 5b = 5$ $-4c + 5d = 4$ $-4c + 5(2c + 2) = 4$

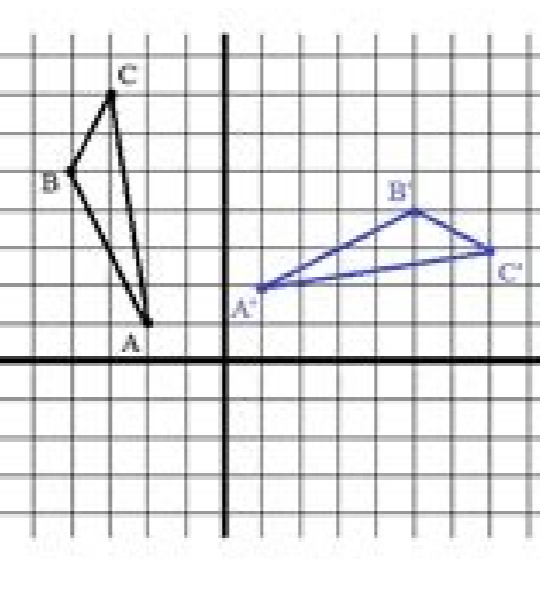
$-3a + 7b = 7$ $-3c + 7d = 3$ $-3c + 7(2c + 2) = 3$

substitution method $b = 2a + 1$ $11c = -11$ $c = -1$

$-3a + 7(2a + 1) = 7$ $-3a + 14a + 7 = 7$ $a = 0$ $d = 0$

$a = 0$ $b = 1$

$T = \begin{bmatrix} 0 & 1 \\ -1 & 0 \end{bmatrix}$ (90 degree clockwise rotation about the origin)



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