

# Mad Time

(negative number and range)

Name: \_\_\_\_\_

Q1) What is the range for below set of data? (use the number lines to help you)

a) -1, 3, 1, 4, 8, 3, 0, 7

d) 6, 3, 5, -5, 2, -1, -1, 7, 4

b) 3, -4, 6, 2, 1, -2, 5, 0

e) -8, 7, 3, -14, -5, 6, 2, 10

c) -2, -5, -11, -7, -4, 0, -6

f) -69, -75, -52, -15, 8, 9, 15, 75

# Mad Time

(negative number and range)

# ANSWER

Name: \_\_\_\_\_

Q1) What is the range for below set of data? (use the number lines to help you)

a)  $\overset{\text{min}}{-1}, 3, 1, 4, 8, 3, 0, 7$

$$8 - -1 = \underline{\underline{9}}$$

b)  $\overset{\text{min}}{3}, \overset{\text{max}}{-4}, 6, 2, 1, -2, 5, 0$

$$6 - -4 = \underline{\underline{10}}$$

c)  $\overset{\text{min}}{-2}, -5, \overset{\text{max}}{-11}, -7, -4, 0, -6$

$$0 - -11 = \underline{\underline{11}}$$

d)  $\overset{\text{min}}{6}, 3, 5, \overset{\text{max}}{-5}, 2, -1, -1, 7, 4$

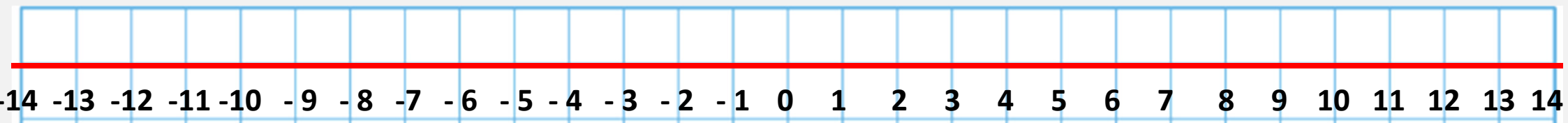
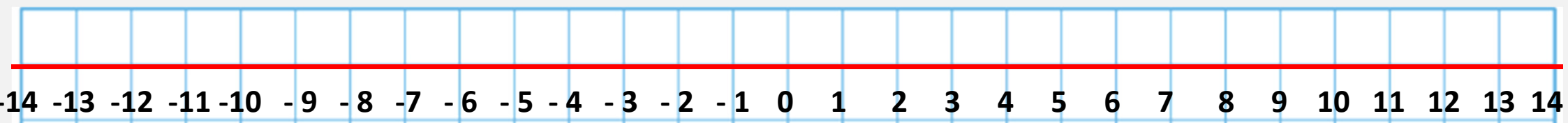
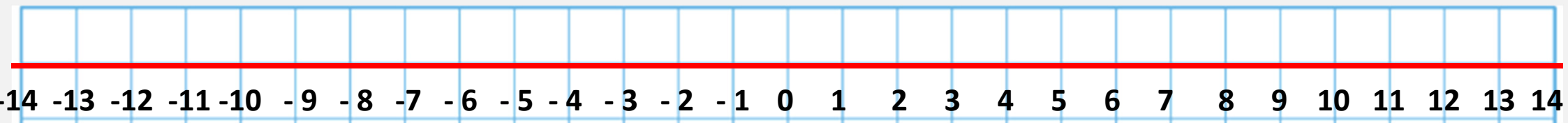
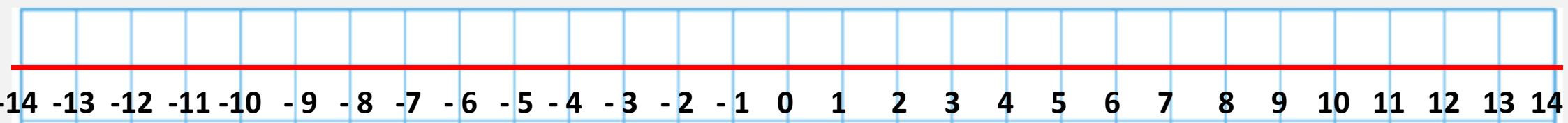
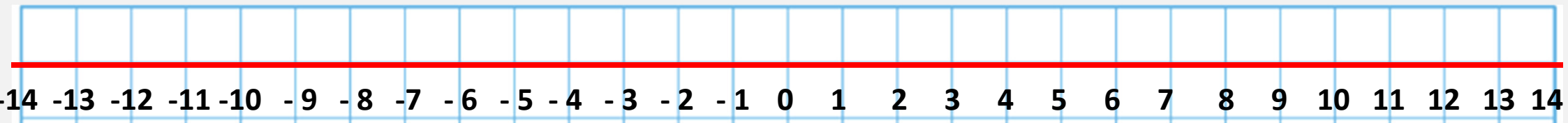
$$7 - -5 = \underline{\underline{12}}$$

e)  $\overset{\text{min}}{-8}, 7, 3, \overset{\text{max}}{-14}, -5, 6, 2, 10$

$$10 - -14 = \underline{\underline{24}}$$

f)  $\overset{\text{min}}{-69}, \overset{\text{max}}{-75}, -52, -15, 8, 9, 15, 75$

$$75 - -75 = \underline{\underline{150}}$$



**No Calculator** Multiply the numbers

				<b>a</b>					
Negative Zone				<b>9</b>					
				<b>7</b>					
				<b>5</b>					
	<b>-4</b>	<b>-3</b>	<b>-2</b>	<b>-1</b>	<b>×</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>a</b>
Positive Zone				<b>-1</b>					
				<b>-2</b>					
				<b>-3</b>					
				<b>-4</b>					

Positive  
Zone

Negative  
Zone

No Calculator Multiply the numbers

**ANSWER**

Negative Zone

$-4a$	$-3a$	$-2a$	$-a$	<b>a</b>	$5a$	$7a$	$9a$	$a^2$
	$-27$			<b>9</b>			$81$	$9a$
		$-14$		<b>7</b>		$49$		$7a$
			$-5$	<b>5</b>	$25$			$5a$

Positive Zone

Positive Zone

<b>-4</b>	<b>-3</b>	<b>-2</b>	<b>-1</b>	<b>×</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>a</b>
			$1$	<b>-1</b>	$-5$			
		$4$		<b>-2</b>		$-14$		
	$9$			<b>-3</b>			$-27$	
$16$				<b>-4</b>				$-4a$

Negative Zone

# No Calculator Multiply the numbers

**ANSWER**

Negative Zone

$-4a$	$-3a$	$-2a$	$-a$	<b>a</b>	$5a$	$7a$	$9a$	$a^2$
$-36$	$-27$	$-18$	$-9$	<b>9</b>	$45$	$63$	$81$	$9a$
$-28$	$-21$	$-14$	$-7$	<b>7</b>	$35$	$49$	$63$	$7a$
$-20$	$-15$	$-10$	$-5$	<b>5</b>	$25$	$35$	$45$	$5a$

Positive Zone

Positive Zone

<b>-4</b>	<b>-3</b>	<b>-2</b>	<b>-1</b>	<b>×</b>	<b>5</b>	<b>7</b>	<b>9</b>	<b>a</b>
$4$	$3$	$2$	$1$	<b>-1</b>	$-5$	$-7$	$-9$	$-a$
$8$	$6$	$4$	$2$	<b>-2</b>	$-10$	$-14$	$-18$	$-2a$
$12$	$9$	$6$	$3$	<b>-3</b>	$-15$	$-21$	$-27$	$-3a$
$16$	$12$	$8$	$4$	<b>-4</b>	$-20$	$-28$	$-36$	$-4a$

Negative Zone

# Challenge

Complete each of these magic squares so that each row, column and diagonal adds up to the same total.

-4		0
3	-1	
-2		2

-1		-3
	0	2
3		1

		-1
2	0	
1	-4	

think! can you work out the missing numbers?

$$a + 6 + 3 = 7$$

$$2 + b + 4 = 1$$

$$3 + 6 + c = 4$$

$$1 + d + 5 = 2$$

$$e + 9 + 1 = 0$$

$$f + 4 + -3 = 2$$

Complete each of these magic squares so that each row, column and diagonal adds up to the same total.

**ANSWER**

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

-1	4	-3
-2	0	2
3	-4	1

-3	4	-1
2	0	-2
1	-4	3

think! can you work out the missing numbers?

$$a + 6 + 3 = 7 \quad \mathbf{-2}$$

$$2 + b + 4 = 1 \quad \mathbf{-5}$$

$$3 + 6 + c = 4 \quad \mathbf{-5}$$

$$1 + d + 5 = 2 \quad \mathbf{-4}$$

$$e + 9 + 1 = 0 \quad \mathbf{-10}$$

$$f + 4 + -3 = 2 \quad \mathbf{1}$$