

# **BATTLESHIP DIRECTIONS**




**Goal: to sink your opponent's ships before they sink yours**


- 1. Place 3 ships in your coordinate boxes "ships can go vertical, horizontal, or diagonal"**
  - Ship 1 will take up 2 boxes
  - Ship 2 will take up 3 boxes
  - Ship 3 will take up 4 boxes
  
- 2. Player 1 will start by answering one of their questions. For example, they would say A4 is -20. Player 2 would check to see if they got it right in their coordinates and if his ship were there. If his ship were there, he would say hit. If it were not there, he would say miss.**

*( if player 1 hit player 2, he would put an x over the hit, if he missed, he would put a 0)*
  
- 3. The rotation would continue until there are no more ships left.**


**Player 1**  
**“coordinates”**

	A	B	C	D	E
1	-12	-18	1	-9	-16
2	-23	-3	-10	34	7
3	12	19	15	-8	25
4	0	-60	-5	-16	-2
5	10	-16	-14	9	4


Questions

	A	B	C	D	E
1	$-4 + 6$	$-21 + 7$	$-10 - (-19)$	$-7 + (-17)$	$29 - 14$
2	$-6 + 1$	$-20 + 13$	$10 + (-70)$	$17 + 17$	$4 - 13$
3	$-6 - 4$	$-14 + 6$	$-4 + (-12)$	$14 - 13$	$-6 - (-3)$
4	$-12 + 12$	$-4 + (-9)$	$2 + 2$	$-1 - (-20)$	$-6 - (-4)$
5	$12 - 1$	$6 - 7$	$-10 + 22$	$-3 + (-3)$	$-9 + 12$

**Player 2**  
**“coordinates”**

	A	B	C	D	E
1	2	-14	9	-24	15
2	-5	-7	-60	34	-9
3	-10	-8	-16	1	-3
4	0	-13	4	19	-2
5	11	-1	12	-6	3

Questions

	A	B	C	D	E
1	$-4 - 8$	$-6 + (-12)$	$14 - 13$	$4 - 13$	$-14 + (-2)$
2	$-9 - 14$	$16 - 19$	$-6 - 4$	$17 + 17$	$17 - 10$
3	$-10 + 22$	$-1 - (-20)$	$29 - 14$	$-14 + 6$	$34 - 9$
4	$-3 + 3$	$10 + (-70)$	$-6 + 1$	$-4 + (-12)$	$-6 - (-4)$
5	$-9 + 19$	$14 - 30$	$-21 + 7$	$-10 - (-19)$	$2 + 2$

# Constant Rates Dominoes



## **Directions:**

- **cut out all the dominoes**
- **start with the domino that says start**
- **find the x and y table that has a constant of  $K = 10$  and place it next to it**

**(and continue doing to each x and y table)**

**Your last constant “ $K = \text{card}$ ”  
should match up with the “start” x  
and y domino**

<b>Start</b>		<b>K = 10</b>
<b>x</b>	<b>y</b>	
<b>3</b>	<b>60</b>	
<b>4</b>	<b>80</b>	
<b>5</b>	<b>100</b>	

<b>x</b>	<b>y</b>	<b>K = 0.6</b>
<b>3</b>	<b>18</b>	
<b>-1</b>	<b>-6</b>	
<b>-4</b>	<b>-24</b>	

<b>x</b>	<b>y</b>	<b>K = 20</b>
<b>2</b>	<b>4</b>	
<b>9</b>	<b>18</b>	
<b>-14</b>	<b>-28</b>	

<b>x</b>	<b>y</b>	<b>K = 0.4</b>
<b>4</b>	<b>12</b>	
<b>-8</b>	<b>-24</b>	
<b>12</b>	<b>36</b>	

<b>x</b>	<b>y</b>	<b>K = 2</b>
<b>-21</b>	<b>-7</b>	
<b>27</b>	<b>9</b>	
<b>36</b>	<b>12</b>	

<b>x</b>	<b>y</b>	<b>K = <math>\frac{1}{2}</math></b>
<b>100</b>	<b>40</b>	
<b>150</b>	<b>60</b>	
<b>200</b>	<b>80</b>	

<b>x</b>	<b>y</b>	<b>K = 6</b>
<b>4</b>	<b>40</b>	
<b>10</b>	<b>100</b>	
<b>12</b>	<b>120</b>	

<b>x</b>	<b>y</b>	<b>K = 3</b>
<b>6</b>	<b>3.6</b>	
<b>8</b>	<b>4.8</b>	
<b>12</b>	<b>7.2</b>	

<b>x</b>	<b>y</b>	<b>K = <math>\frac{1}{3}</math></b>
<b>8</b>	<b>4</b>	
<b>16</b>	<b>8</b>	
<b>24</b>	<b>12</b>	

# Answer Key

Start		$K = 10$		$K = 6$		$K = 0.6$	
x	y	x	y	x	y	x	y
3	60	4	40	3	18	6	3.6
4	80	10	100	-1	-6	8	4.8
5	100	12	120	-4	-24	12	7.2

$K = 20$		$K = 3$		$K = 0.4$	
x	y	x	y	x	y
2	4	4	12	200	80
9	18	-8	-24	150	60
-14	-28	12	36	100	40



  

$K = 2$		$K = 1$		$K = 0.1$	
x	y	x	y	x	y
6	12	24	12	27	36
-7	9	16	8	21	27
27	54	8	4	21	27



# Where would you shop?



There is a new store that was just relocated to Pearland, Texas. The store is called Bear's deals. Your job is to decide if Bear's Deals can beat our very own HEB deals by finding the unit rate of each item. After you find the unit rates, you will need to decide if you will keep shopping at HEB or start shopping at Bear's Deals. "To find the unit rate take the price of each item divided by the number of items"

 <b>Bear's Deals</b>	<b>Unit Rate</b>	 <b>H-E-B</b>	<b>Unit Rate</b>
Bananas 5 for \$ \$2.10		Bananas 8 for \$3.20	
Steak 3 for \$23.40		Steak 10 for \$71.00	
6 apples for \$5.94		14 apples for \$ \$12.60	
6 chicken breasts for \$11.64		10 chicken breasts for \$20.10	
Shrimp 1 pound for \$10.93		Shrimp 8 ounces for \$5.05	

Which store has a better deal to shop at?

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## Answer Key

 <b>Bear's Deals</b>	<b>Unit Rate</b>		<b>Unit Rate</b>
Bananas 5 for \$ \$2.10	<b>\$0.42</b>	Bananas 8 for \$3.20	<b>\$0.40</b>
Steak 3 for \$23.40	<b>\$7.80</b>	Steak 10 for \$71.00	<b>\$7.10</b>
6 apples for \$5.94	<b>\$0.99</b>	14 apples for \$ \$12.60	<b>\$0.90</b>
6 chicken breasts for \$11.64	<b>\$1.94</b>	10 chicken breasts for \$20.10	<b>\$2.01</b>
Shrimp 1 pound for \$10.93	<b>\$10.93 per pound</b>	Shrimp 8 ounces for \$5.05	<b>\$10.10 per pound</b>

Which store has a better deal to shop at?

**HEB overall has better deals than Bear's Deals. I would continue to shop at HEB because Bear's Deals only have one better deal and that is for chicken breasts.**



# Adding and Subtracting

Directions: Match the correct answer to the questions below.

## Questions

$11\frac{1}{2} + 3\frac{3}{4}$	$13\frac{3}{4} - 7\frac{2}{5}$
$6\frac{3}{4} \times 1\frac{1}{4}$	$3\frac{1}{2} \div 1\frac{5}{6}$
$10\frac{1}{2} - 8$	$10 - 7\frac{1}{8}$
$10 + 8\frac{1}{4}$	$2\frac{5}{6} \times 12$
$6 \div 2\frac{1}{2}$	$6 \times 1\frac{1}{2} \div 4$

## Answers:

$8\frac{7}{16}$	$2\frac{1}{2}$
$2\frac{7}{8}$	$6\frac{7}{20}$
$11\frac{10}{11}$	$2\frac{1}{4}$
$2\frac{2}{5}$	34
$15\frac{1}{4}$	$18\frac{1}{4}$

## Answer Key

$11\frac{1}{2} + 3\frac{3}{4} = 15\frac{1}{4}$	$13\frac{3}{4} - 7\frac{2}{5} = 6\frac{7}{20}$
$6\frac{3}{4} \times 1\frac{1}{4} = 8\frac{7}{16}$	$3\frac{1}{2} \div 1\frac{5}{6} = 11\frac{10}{11}$
$10\frac{1}{2} - 8 = 2\frac{1}{2}$	$10 - 7\frac{1}{8} = 2\frac{7}{8}$
$10 + 8\frac{1}{4} = 18\frac{1}{4}$	$2\frac{5}{6} \times 12 = 34$
$6 \div 2\frac{1}{2} = 2\frac{2}{5}$	$6 \times 1\frac{1}{2} \div 4 = 2\frac{1}{4}$