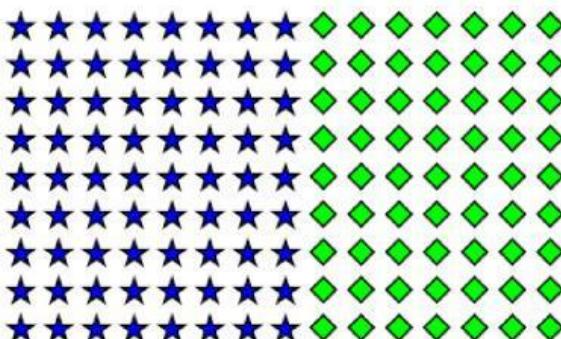


Name: _____

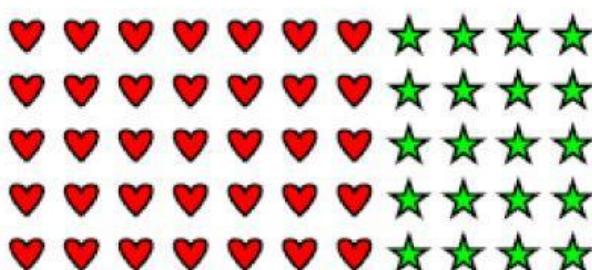
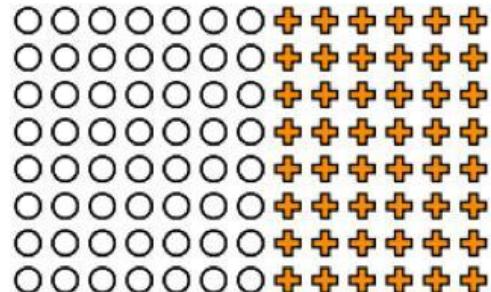
RATIOS AND RATES

1. DETERMINE THE FOLLOWING RATIOS:



- What is the ratio of \star to \diamond ?
- What is the simplified ratio?
- What is the ratio of \diamond to \star ?
- What is the simplified ratio?

- What is the ratio of \circ to the total number of shapes?
- What is the simplified ratio?
- What is the ratio of $+$ to the total number of shapes?
- What is the simplified ratio?



- What is the ratio of \heartsuit to \star ?
- What is the simplified ratio?
- What is the ratio of \star to \heartsuit ?
- What is the simplified ratio?

2. DETERMINE IF THE FOLLOWING RATIOS ARE EQUIVALENT:

- $\frac{7}{6}$ and $\frac{28}{24}$
- $\frac{4}{3}$ and $\frac{9}{11}$
- $\frac{7}{5}$ and $\frac{42}{30}$

3. WRITE EACH RATIO ALL THREE WAYS (fraction, colon: and the word TO):

1. 4 sailboats to 6 motorboats <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>	2. 8 yellow eggs out of 12 colored eggs <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>	3. 3 tulips to 9 daffodils <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						
4. 14 sheets of paper out of 35 <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>	5. 15 baseballs to 25 softballs <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>	6. 12 hours out of 30 hours <table border="1"><tr><td><hr/></td><td><hr/></td><td>:</td><td><hr/></td><td><hr/></td><td>to</td><td><hr/></td></tr><tr><td><hr/></td><td><hr/></td><td></td><td><hr/></td><td><hr/></td><td></td><td><hr/></td></tr></table>	<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>	<hr/>	<hr/>		<hr/>	<hr/>		<hr/>
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						
<hr/>	<hr/>	:	<hr/>	<hr/>	to	<hr/>																																						
<hr/>	<hr/>		<hr/>	<hr/>		<hr/>																																						

4. COMPARE THE RATIOS AND PROVIDE THE ANSWERS:

1. Two friends are creating their own gaming energy drink.
 - Mix A: 2 scoops of energy powder and 6 cups of water.
 - Mix B: 3 scoops of energy powder and 9 cups of water.

The more powder compared to water, the stronger the drink.

Which mix is stronger?

2. Two students are making slime for a video.
 - Slime A: 4 cups of glue and 2 cups of activator.
 - Slime B: 6 cups of glue and 4 cups of activator.

The more glue compared to activator, the stretchier the slime.

Which slime will be stretchier?

3. Two players are practicing free throws.
 - Player A makes 12 shots out of 20 attempts.
 - Player B makes 18 shots out of 30 attempts.

Who is better at free throws?

4. Two friends are making playlists.

- Playlist A: 15 upbeat songs out of 25 total songs.
- Playlist B: 18 upbeat songs out of 36 total songs.

Which playlist has more upbeat songs?

5. Two snack brands are testing spiciness.

- Brand A: 5 grams of chili powder mixed into 20 grams of seasoning.
- Brand B: 8 grams of chili powder mixed into 40 grams of seasoning.

Which brand's chips are spicier?

6. Two students are timing their homework sessions.

- Student A studies 40 minutes and takes a 20-minute break.
- Student B studies 60 minutes and takes a 40-minute break.

Who spends more time studying?

7. Two lemonade stands are testing sweetness.

- Stand A: 3 cups of sugar for every 4 liters of water.
- Stand B: 5 cups of sugar for every 8 liters of water.

Which lemonade is sweeter?

8. Two YouTube channels are growing.

- Channel A gains 120 subscribers in 6 days.
- Channel B gains 200 subscribers in 10 days.

Which channel is growing faster?