

## MATCH AND COMPARE SORTS

Match and Compare Sorts challenge students to make connections among ideas in multiple ways through partner work and discussions. First they match an idea (typically expressed as a word or phrase) to a description of it. Then they work with a partner to find similarities and differences among related ideas.

Why?

- Encourage student engagement and discussion
- Develop critical thinking skills about compare-contrast situations
- Connect concepts to vocabulary words and phrases

Prepare ahead:

- Ask students to cut apart Match and Compare Sorting Cards and paper clip together. One set per partner is sufficient, and they may be reused.
- Reproduce (or project for students to copy) the Match and Compare Sort Template – one per student.

Launch the activity: Use a non-math example to establish the steps of the activity and routines for discussion.

Part 1:

- One partner has the triangle cards, and the other has the circle cards. Individually, each student matches the I-II-III-IV word cards to the A-B-C-D description cards.
- Partners discuss both sets of cards and agree that matches are correct.
- Both students record the matched card numbers, words, and card letters in the Match and Compare table.
- Discuss as a class if desired.

Part 2:

- With the whole class, choose one pair of matched number cards and discuss what is the same and what is different about the words or phrases on them. Show students how to record similarities and differences in a sorting circle (Venn) diagram.
- Ask partners to choose another pair of matched number cards. Students discuss and record what is the same and what is different about them in a sorting circle diagram.
- Students share with the class.

Accountability/Followup Ideas:

- Match and Compare Sorts are located in multiple locations in MathLinks. Check work for completeness.
- Circulate around the room and ask specific pairs to share their sorting circle diagrams.
- Ask a compare-contrast question as an exit slip or on a quiz.

## MATCH AND COMPARE SORTING CARDS A: AN EXAMPLE

I <b>GYMNASTICS</b> △	I <b>DANCING</b> ○
II <b>TRACK AND FIELD</b> △	II <b>RUNNING</b> ○
III <b>WRESTLING</b> △	III <b>WEIGHT TRAINING</b> ○
IV <b>WATER POLO</b> △	IV <b>SWIMMING</b> ○
<b>A</b> <ul style="list-style-type: none"> <li>✓ Participants are usually competitors or sparring partners</li> <li>✓ Techniques include clinch fighting, throws and takedowns, joint locks, and pins</li> </ul> △	<b>A</b> <ul style="list-style-type: none"> <li>✓ involves music</li> <li>✓ burns about the same number of calories as jogging</li> <li>✓ increases balance and coordination</li> </ul> ○
<b>B</b> <ul style="list-style-type: none"> <li>✓ Events include short, middle, and long distance running</li> <li>✓ Some events require jumping and weight throwing</li> </ul> △	<b>B</b> <ul style="list-style-type: none"> <li>✓ increases heart rate without impact on the body</li> <li>✓ builds endurance and muscle strength through water resistance.</li> </ul> ○
<b>C</b> <ul style="list-style-type: none"> <li>✓ Events include uneven bars, floor, and vault for women</li> <li>✓ Events include horizontal and parallel bars, rings, floor, and pommel horse for men</li> </ul> △	<b>C</b> <ul style="list-style-type: none"> <li>✓ Typically done in a gym</li> <li>✓ Leg press increases lower body strength</li> <li>✓ Lat pull down increases upper body strength</li> </ul> ○
<b>D</b> <ul style="list-style-type: none"> <li>✓ played in the water</li> <li>✓ activity has similarities to basketball and soccer</li> </ul> △	<b>D</b> <ul style="list-style-type: none"> <li>✓ Aerobic activity typically done outside</li> <li>✓ Includes jogging and sprinting</li> </ul> ○

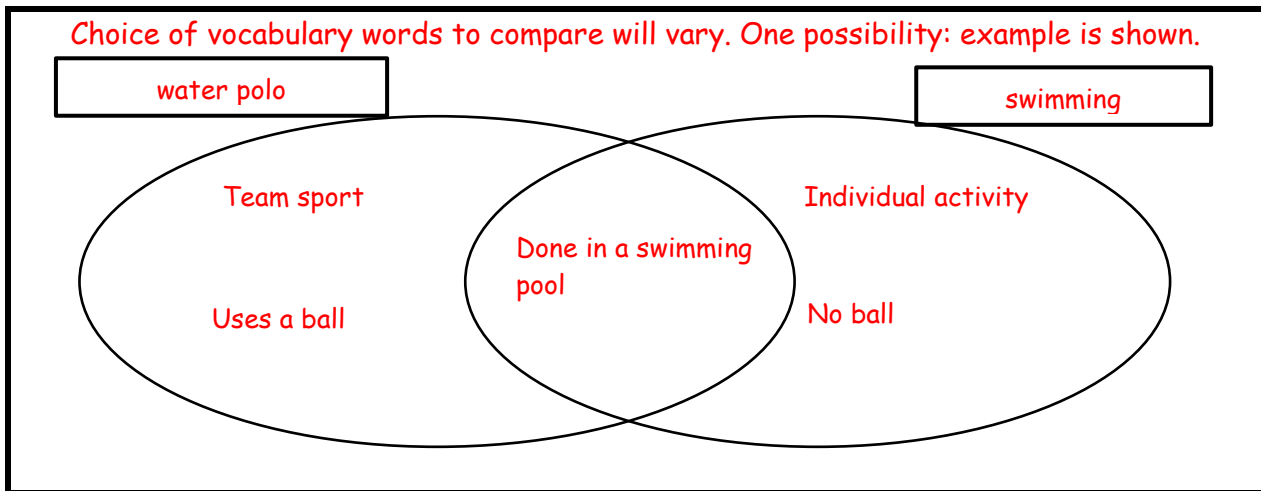
## MATCH AND COMPARE SORT A: AN EXAMPLE

Answer Key

















(1) Individually, match words with descriptions. Record results.

Card set $\triangle$			Card set $\circ$		
Card number	word	Card letter	Card number	word	Card letter
I	gymnastics	C	I	dancing	A
II	track and field	B	II	running	D
III	wrestling	A	III	weight training	C
IV	water polo	D	IV	swimming	B

(2) Partners, choose pair of numbered matched cards. Record same and different attributes.



## MATCH AND COMPARE SORTING CARDS B: SHAPES

I  <b>ISOSCELES TRIANGE</b>	I  <b>KITE</b>
II  <b>EQUILATERAL TRIANGLE</b>	II  <b>SQUARE</b>
III  <b>TRIANGLE</b>	III  <b>QUADRILATERAL</b>
IV  <b>RIGHT TRIANGLE</b>	IV  <b>RECTANGLE</b>
A ✓ One right angle ✓ 3-sided figure 	A ✓ 2 pairs of equal sides ✓ Equal sides are adjacent to each other. ✓ Same number of sides as a parallelogram 
B ✓ 3-sided figure ✓ no equal sides ✓ no equal angles 	B ✓ 2 pairs of equal sides ✓ Equal sides are opposite each other. ✓ Same shape as a "Speed Limit" sign 
C ✓ Same shape as a "Yield" traffic sign ✓ 3 equal sides ✓ 3 equal angles 	C ✓ One less side than a pentagon ✓ Sides do not need to be equal 
D ✓ 3-sided figure ✓ At least two equal sides ✓ At least two equal angles 	D ✓ Exactly four equal sides ✓ Four equal angles ✓ Same shape as a "No U Turn" sign 

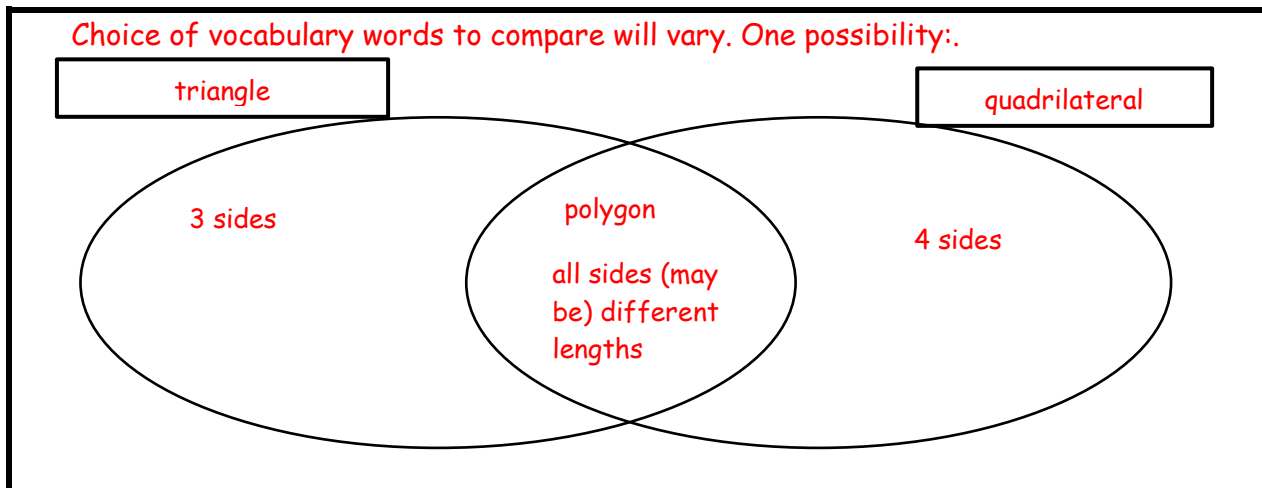
## MATCH AND COMPARE SORT B: SHAPES

Answer Key

(1) Individually, match words with descriptions. Record results.



Card set $\triangle$			Card set $\circ$		
Card number	word	Card letter	Card number	word	Card letter
I	isosceles triangle	D	I	kite	A
II	equilateral triangle	C	II	square	D
III	triangle	B	III	quadrilateral	C
IV	right triangle	A	IV	rectangle	B

(2) Partners, choose pair of numbered matched cards. Record same and different attributes.



## MATCH AND COMPARE SORT: TEMPLATE

(1) Individually, match words with descriptions. Record results.

Card set 			Card set 		
Card number	word	Card letter	Card number	word	Card letter
I			I		
II			II		
III			III		
IV			IV		

(2) Partners, choose pair of numbered matched cards. Record same and different attributes.

