

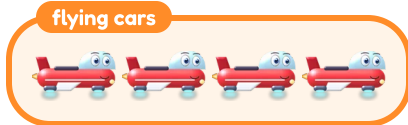
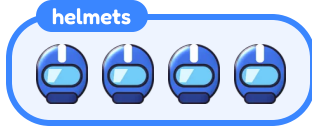


1

Equivalent or Not?

Are these sets equivalent? Count each set, or match them one to one. Then tick a box.

1



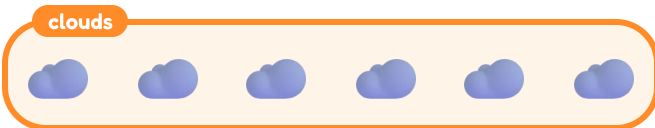
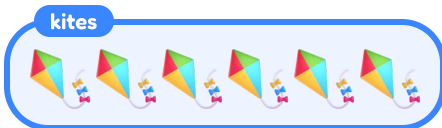
☐ Equivalent ☐ Not equivalent

2



☐ Equivalent ☐ Not equivalent

3



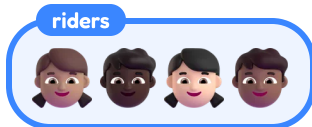
☐ Equivalent ☐ Not equivalent

4



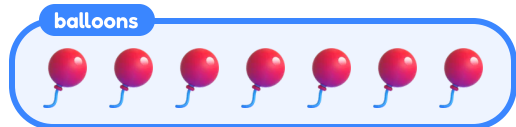
☐ Equivalent ☐ Not equivalent

5



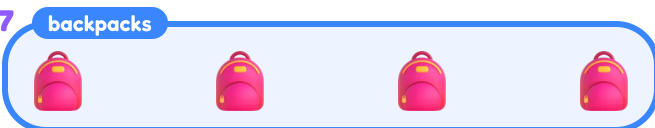
☐ Equivalent ☐ Not equivalent

6



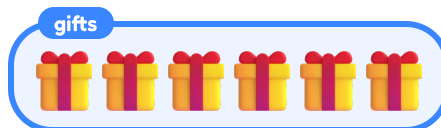
☐ Equivalent ☐ Not equivalent

7



☐ Equivalent ☐ Not equivalent

8



☐ Equivalent ☐ Not equivalent



Seats for Everyone

Draw a set that is equivalent to the blue set: one for each. Then write how many are in each set.



- 1 Every rider needs one seat. Make a set of seats. Draw them in the orange ring.



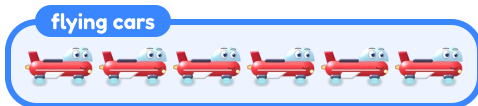
riders: _____ seats: _____

- 2 Every rider needs one helmet. Make a set of helmets. Draw them in the orange ring.



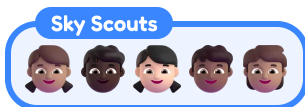
riders: _____ helmets: _____

- 3 Every flying car needs one landing pad. Make a set of landing pads. Draw them in the orange ring.



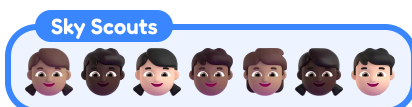
flying cars: _____ landing pads: _____

- 4 Every Sky Scout gets one balloon. Make a set of balloons. Draw them in the orange ring.



Sky Scouts: _____ balloons: _____

- 5 Every Sky Scout needs one backpack. Make a set of backpacks. Draw them in the orange ring.



Sky Scouts: _____ backpacks: _____

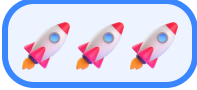


3

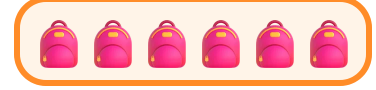
Match the Sets

Draw a line from each blue set to the orange set that is equivalent.
Equivalent sets have the same number.

Blue sets



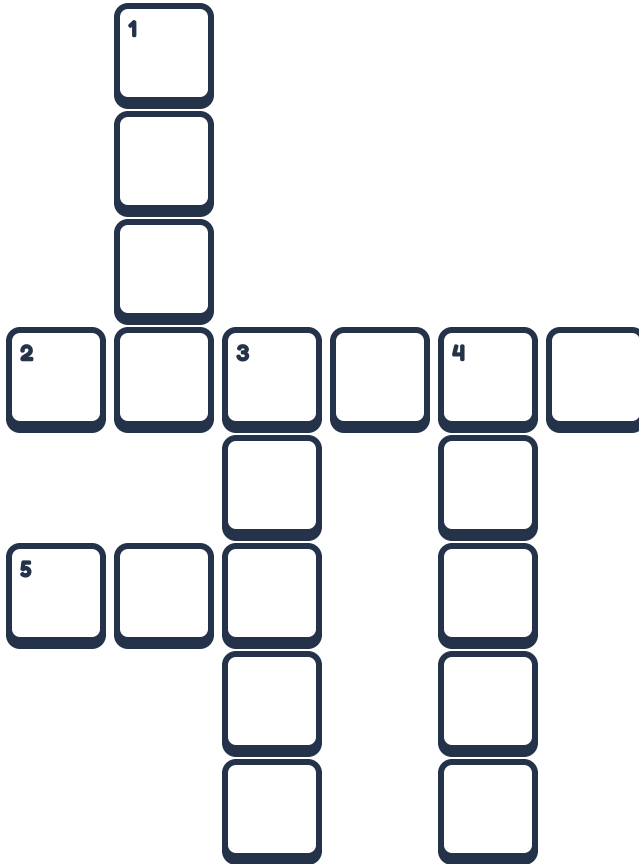
Orange sets





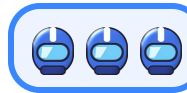
Pilot Crossword

Read each clue and look at its picture. Write one letter in each box.



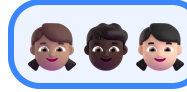
1 down · 4 letters

How many stars are in this set?



2 across · 6 letters

Each thing in a set is called a...



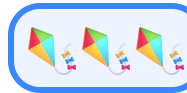
3 down · 5 letters

One rider, one seat! We do this to check sets, one to one.



4 down · 5 letters

Equivalent starts just like this word: E, Q, U.



5 across · 3 letters

A group of things.

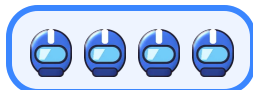
Word bank: EQUAL · FIVE · MATCH · MEMBER · SET



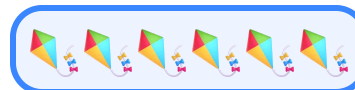
Number Hunt

Count each set and write its number word in the boxes. Then find the word in the grid and color it in. Words go across → or down ↓ only.

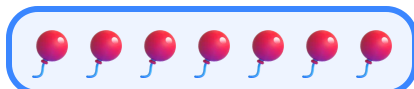
J	H	Z	H	F	T	X	M
G	D	C	V	X	W	H	B
D	C	C	J	K	O	B	X
P	S	X	J	S	K	M	Z
B	E	F	D	I	X	L	W
D	V	O	L	X	P	K	M
B	E	U	D	F	V	F	M
V	N	R	D	B	B	J	J



How many helmets are in this set?



How many kites are in this set?



How many balloons are in this set?



How many moons are in this set?

Stuck? Here are the words, upside down: four · six · seven · two



Is Gusty Right?

Decide if each claim is right. Then explain why. Sky pilots always explain!



"I spread my 4 kites way across the sky. Now I have more kites than Jaden!"

Gusty's kites



Jaden's kites



Step 1. Is Gusty right? ☐ Yes ☐ No

Step 2. Why?

Step 3. How sure are you? 😞 ☐ 😊 ☐ 😄 ☐



"Rockets and moons are different things. So 3 rockets and 3 moons can never be equivalent!"

rockets



moons



Step 1. Is Gusty right? ☐ Yes ☐ No

Step 2. Why?

Step 3. How sure are you? 😞 ☐ 😊 ☐ 😄 ☐



"There are 5 riders and 4 seats. These sets are not equivalent!"

riders



seats



Step 1. Is Jaden right? ☐ Yes ☐ No

Step 2. Why?

Step 3. How sure are you? 😞 ☐ 😊 ☐ 😄 ☐



Sky Race

A game for 2 to 4 players. You need a die (or number cards 1 to 6) and a coin or button for each player.



20 finish	19 blown down to 12	18 question card	17	16
11 zoom up to 17	12	13	14 question card	15 blown down to 8
10 question card	9	8	7 zoom up to 13	6
1 start	2	3 zoom up to 9	4	5 question card

How to play: Roll and move. Land on 🌈, ☁️ or ★? Another player reads you a question card.
 🌈 Answer right to zoom up. ☁️ Answer right to fly over the storm, or get blown down. ★ Answer right to roll again. First to the 🏆 wins!



Question Cards

Cut out the cards and put them face down in a pile. The answer is printed upside down at the bottom.

★ Question 1

How many members are in this set?



5 6 7
.....

Answer: 6

★ Question 2

Are these sets equivalent?



👍 Yes 👎 No

Answer: Yes

★ Question 3

Look at the moons and the rockets. Are the sets equivalent?



👍 Yes 👎 No

Answer: No

★ Question 4

Which set is equivalent to the set of helmets?



Answer: 3 kites

★ Question 5

What is a set?

1 One single thing ○ A group of things

🚗 A kind of flying car

Answer: A group of things

★ Question 6

Each thing in a set is called a...

○ ring 🚗 seat 👤 member

Answer: member

★ Question 7

Equivalent sets have the same...

🎨 color 1 2 3 4 number 🧸 kind of thing

Answer: number

★ Question 8

Gusty spread his 4 cars far apart. How many cars does he have now?

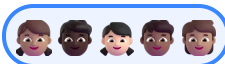


3 4 5
... ..

Answer: 4

★ Question 9

There are 5 riders and 3 seats. How many more seats do we need?



1 2 3
... ..

Answer: 2

★ Question 10

How can we check if two sets are equivalent?

📏 Look at which line is longer

🎨 Look at the colors

🔗 Match them one to one, or count them

Answer: Match them one to one, or count them



Match Stamp Earned!



earned the **Match stamp** on the Sky Squad Pilot License

A set is a group of things. Each thing in a set is a member.
Equivalent sets have the same number, even when the things are different. Match them one to one, or count!

Our chant: Match them up, one by one! Nobody left, equivalent, done!

How does this math feel now? Color one.

☐ I need more practice ☐ I am getting there ☐ I can teach it!

Date _____ Signed _____



Answer Key

1. Equivalent or Not?

1. Equivalent: 4 helmets and 4 flying cars. Same number, so the sets are equivalent!
2. Not equivalent: 3 stars and 5 stars. The numbers are different, so the sets are not equivalent.
3. Equivalent: 6 kites and 6 clouds. The clouds are spread out, but spreading out does not change the number. Equivalent!
4. Equivalent: 2 rockets and 2 moons. They are different things, but the number is the same. Equivalent!
5. Not equivalent: 4 riders and 5 seats. One seat is left over, so the sets are not equivalent.
6. Equivalent: 7 balloons and 7 packages. Same number, so the sets are equivalent!
7. Not equivalent: The backpacks look longer, but there are only 4. There are 5 suitcases. Not equivalent!
8. Not equivalent: 6 gifts and 5 cups. One gift has no partner, so the sets are not equivalent.

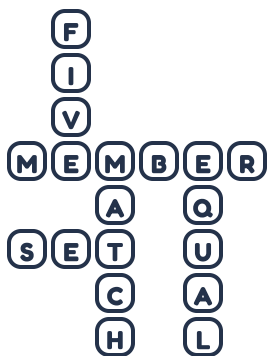
2. Seats for Everyone

1. 4 riders and 4 seats
2. 3 riders and 3 helmets
3. 6 flying cars and 6 landing pads
4. 5 Sky Scouts and 5 balloons
5. 7 Sky Scouts and 7 backpacks

3. Match the Sets

- 2 helmets and 2 kites
- 3 rockets and 3 gifts
- 4 stars and 4 seats
- 5 balloons and 5 flying cars
- 6 moons and 6 backpacks
- 7 clouds and 7 cups

4. Pilot Crossword



- 1 down: five, 2 across: member, 3 down: match, 4 down: equal, 5 across: set

5. Number Hunt

four, six, seven, two



6. Is Gusty Right?

1. No. Spreading things out does not change the number. Both sets have 4.
2. No. Sets do not have to be the same type of object. Just the same number: 3 and 3.
3. Yes. Match them one to one. One rider has no seat, so the numbers are different.

7. Sky Race question cards

1. 6. Count them one by one: 6 kites.
2. Yes. 4 cars and 4 seats. Same number!
3. No. 3 moons and 5 rockets. Two rockets are left over.
4. 3 kites. 3 helmets and 3 kites. Same number!
5. A group of things. A set is a group of things.
6. member. Each thing in a set is a member.
7. number. Equivalent sets have the same number.
8. 4. Still 4! Spreading out does not change the number.
9. 2. Match them: 2 riders have no seat. We need 2 more seats.
10. Match them one to one, or count them. Match them one to one, or count each set.

Step 3 (how sure?) has no right answer. A child who is right but "not sure" needs one more practice round. A child who is wrong but "very sure" has a mix-up worth talking about.

Equivalent starts just like **equal**: E, Q, U.
Equivalent means an equal number.