

Year 3:

Can I compare statements using the symbols $<$, $>$ and $=$?



THIRD SPACE
LEARNING

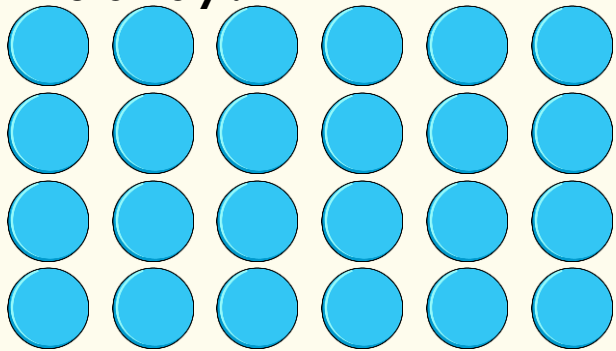
Success Criteria

- I can use the inequality symbols 'more than' ($>$) and 'less than' ($<$).
- I know that multiplication and division can be shown in arrays or as repeated addition.



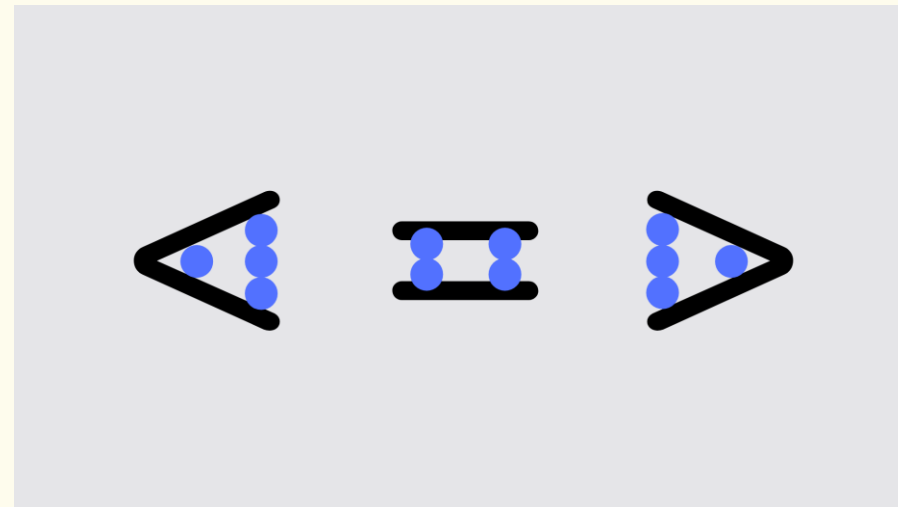
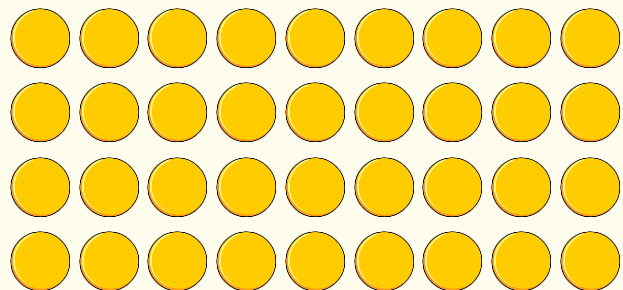
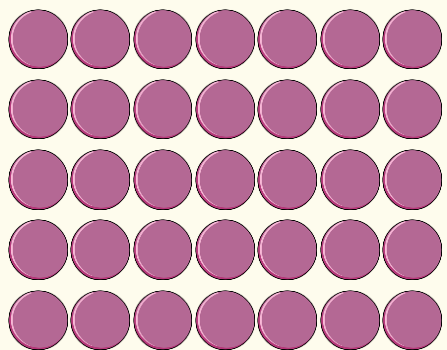
Year 3:

Can you write two multiplication facts and two division facts based on this array?





Use $<$, $>$ or $=$ to compare these arrays.



Examples

$$1 < 3$$

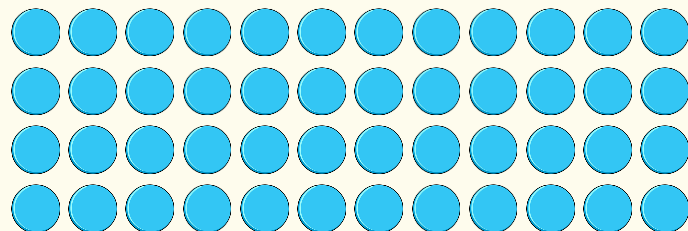
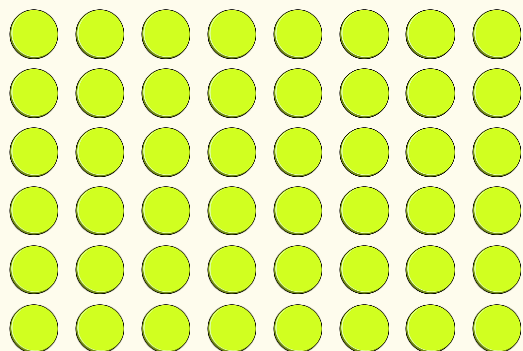
$$1 + 1 = 2 + 0$$

$$3 > 1$$



Guided Practice:

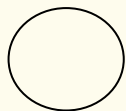
Sian uses counters to make arrays.



Use the arrays she has made to compare 6×8 and 4×12 .

Which symbol completes the statement?

6×8



4×12



Guided Practice:

The mathstronaut says,



$$11 \times 3 = 11 + 11 + 11$$

Is he correct?

Explain your answer.

Answers



Independent Practice:

2. a. $7 \times 5 > 5 + 5 + \dots$

Using only the number 5, how many ways can you complete the statement for it to be true?

b. $7 \times 6 = 7 \times \underline{\quad} + 7 \times \underline{\quad}$

Which number can be used twice to complete this statement?

c. $8 \times 8 = 2 \times 4 \times 8$

Is this statement true or false? Can you prove it?

d. $9 \times 4 > \underline{\quad} \times 3$

What is the largest possible number you can use so that this statement is true?



Guided Practice:

Find three different ways to complete this number sentence.

$$\underline{\quad} \times 5 + \underline{\quad} \times 5 < \underline{\quad} \div 5$$

Answers



Independent Practice:

3. Find two different ways to complete these number sentences:

a. $\underline{\quad} \div 3 < \underline{\quad} \times 3 < \underline{\quad} \times 3$

b. $\underline{\quad} \times 6 > \underline{\quad} \div 6 < \underline{\quad} \times 6$

c. $\underline{\quad} \div 5 < \underline{\quad} \times 5 > \underline{\quad} \times 5$

d. $\underline{\quad} \times 8 > \underline{\quad} \div 8 < \underline{\quad} \times 8$



Light Bulb Challenge

Find the value of the star if the following are true:

$$9 \times \star > 11 \times 3 \quad \text{and} \quad 5 \times \star < 7 \times 3$$

Explain the strategy you would use to solve this problem.

Answers