# Groups Make Multiplication!

Seeing 5 x 7 as 5 groups of 7




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# From Groups to Product

5 plates with 7 grapes each → Add it up: 7 + 7 + 7 + 7 + 7 → Shortcut it: 5 x 7 → Count all: 35 grapes in total





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# Key words

**equal groups**

collections that each have the same number of things

**factor**

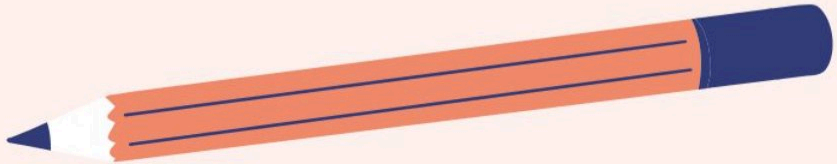
one of the numbers we multiply

**product**

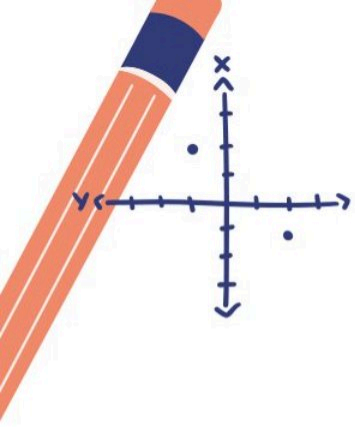
the answer when you multiply

**times**

another word for groups of



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# Which picture helps?

## You see 4 x 6. Which picture helps you most?

**A** 4 boxes with 6 crayons in each

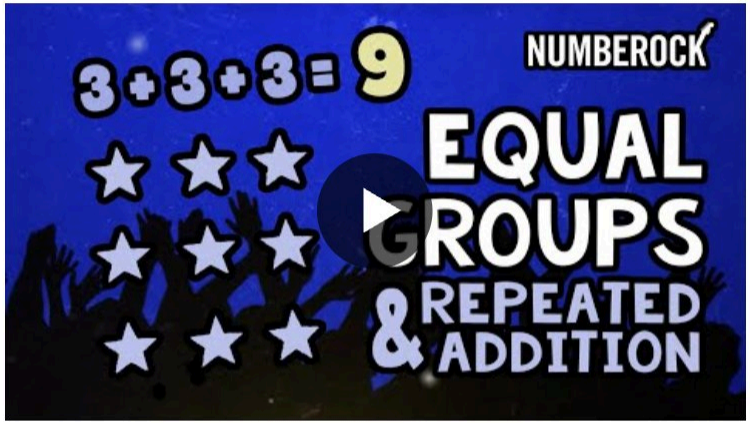
**B** 6 boxes with 4 crayons in each

**C** Both help in a different way

Vote with your hands, then explain why.

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# Sing the Groups Song




▶ 0:00 – 3:11

- Watch for equal groups
- Listen for adding over and over





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# Three Ways to See It

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**4 x 3**

4 bowls, 3 apples in each bowl.

⭐

**2 x 6**

2 cards, 6 stars on each card.

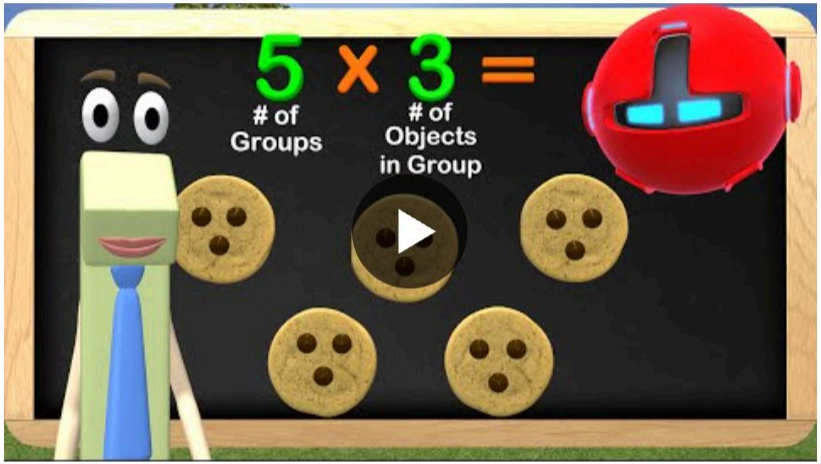
🧃

**5 x 2**

5 packs, 2 juice boxes in each.

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# Equal Groups in Action




▶ 0:00 – 3:44

- Spot number of groups
- Spot number in each group

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# Your task

## Build 5 x 7 with small cubes and show the total.

1. Make 5 groups with 7 cubes in each
2. Draw the groups and write 7+7+7+7+7
3. Write 5 x 7 = 35 and check with partner

**15 min**

**In pairs**



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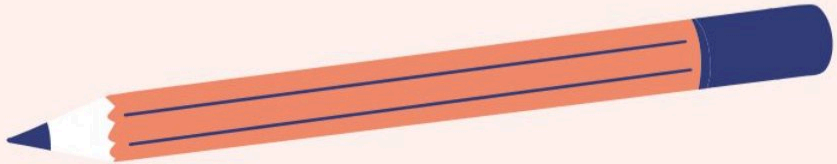
# Can We Multiply It?

## Equal - Yes!

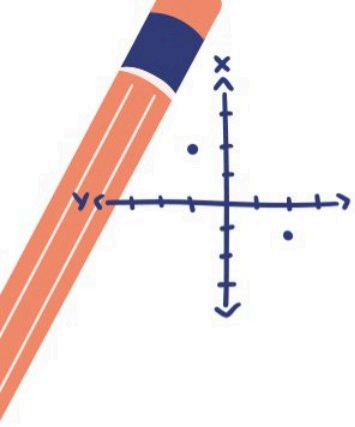
- 3 groups of 4
- 4 + 4 + 4 = 12
- 3 x 4 = 12

## Not Equal - Not Yet!

- Groups of 4, 5, and 3
- Cannot write as repeated addition
- Make them equal first



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# Think, pair, share

A student has 6 x 2 stickers. How many groups? How many in each? What is the total?

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# Quick quiz

1. What does 5 x 7 mean?

2. Write 3 x 4 as an addition.

3. 3 plates have 2 cookies each. What multiplication?





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