Grade 2 Mathematics: Data and Probability

Free sample lesson

Ontario curriculum: Mathematics (2020), Strand D: Data. 16 days.

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This is Lesson 1 of 12 from the full unit, exactly as it appears in the Teacher Guide, followed by the student worksheet. The full unit is at unitplans.ca.

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Lesson 1: Sorting by colour and size

1 day · about 40 minutes · D1.1

> **Learning goal**
>
> - We are learning to sort things into groups by one feature.

> **Success criteria**
>
> - I can sort things by colour.
> - I can sort things by size.
> - I can count each group.

Materials

- Bags of buttons and blocks in two colours and two sizes
- Two hoops or sorting mats
- Rule cards (red, big)

What students do with their hands

Students sort a bag of buttons and blocks into two hoops, then change the rule and sort them again.

Minds On (8 min)

1. Show a bag of mixed blocks. Ask: "How can we sort these?"
2. Students share ideas, then sort with the class rule: red or not red.

Action (24 min)

1. Model sorting into two hoops with a rule card. Count each hoop.
2. Partners sort a bag by colour, then re-sort the same things by size.
3. Complete the worksheet.

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Consolidation (8 min)

1. Gallery walk: guess each partner's sorting rule.
2. Exit: "How did you sort your things?"

Questions to ask

- What is your rule?
- Does each thing fit only one group?

Watch for

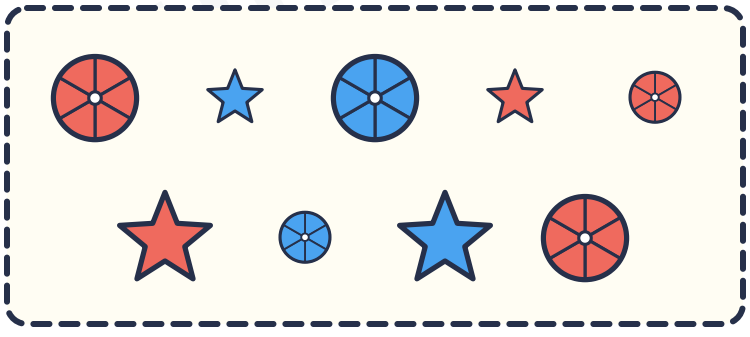
- Some students change the rule halfway through. Keep the rule card in view.

Differentiation

Support	Extend
Sort only two kinds of objects.	Find a third way to sort the same pile.

Answer key: Sort and count

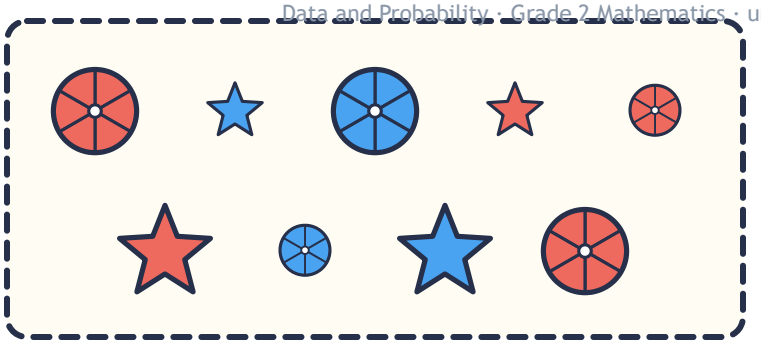
1. Circle the red ones.



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> **Answer:** 5 red things are circled.

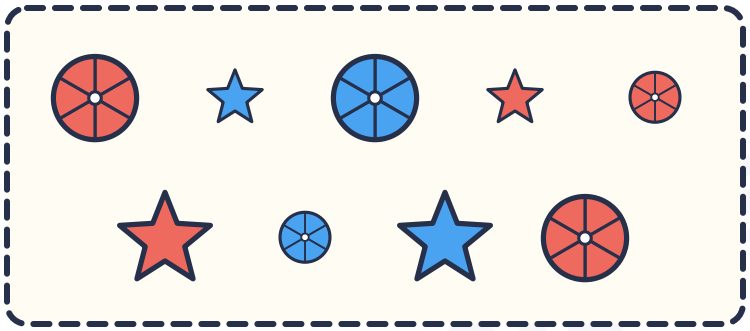
2. How many are big?



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> **Answer:** 5

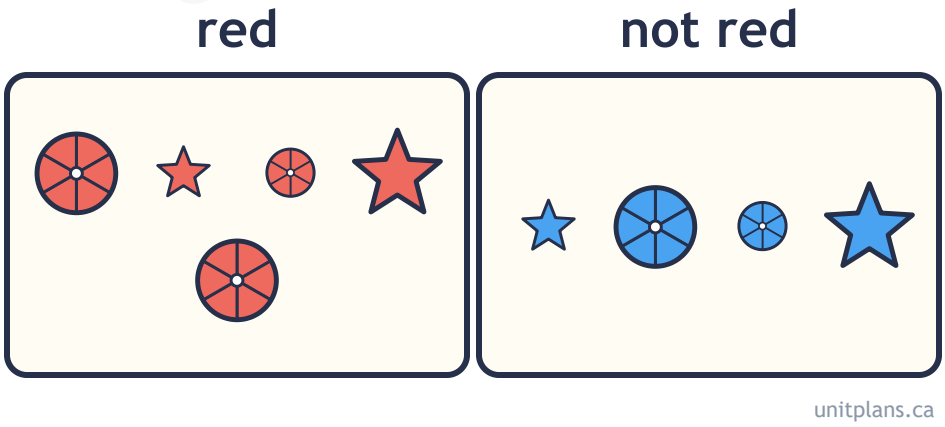
3. How many are small?



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> **Answer:** 4

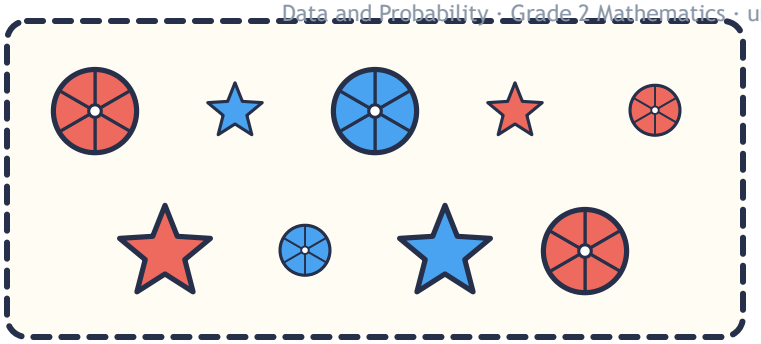
4. Which group has more? Circle it.



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> **Answer:** red

5. How many things in all?



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Answer: 9

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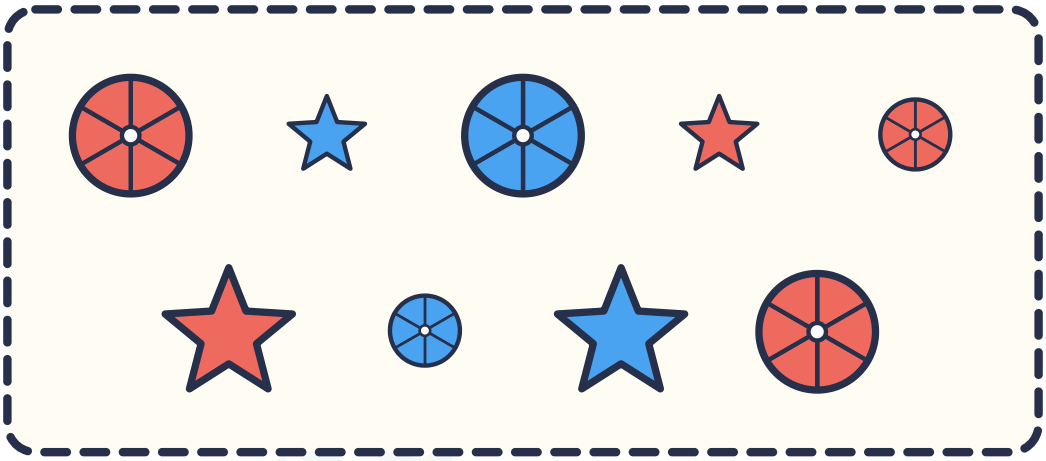
Student worksheet: Sort and count

Success criteria

- I can sort things by colour.
- I can sort things by size.
- I can count each group.

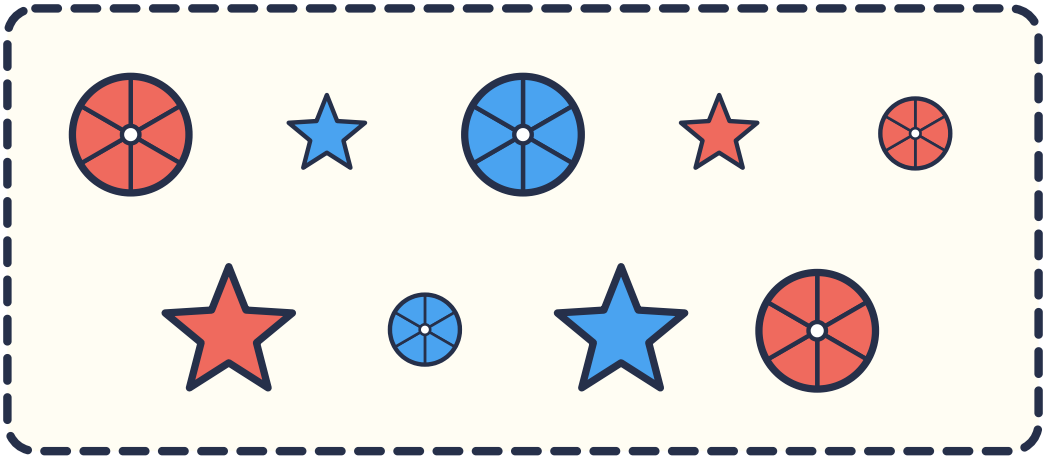
Look at the things. Follow each question.

1 Circle the red ones.



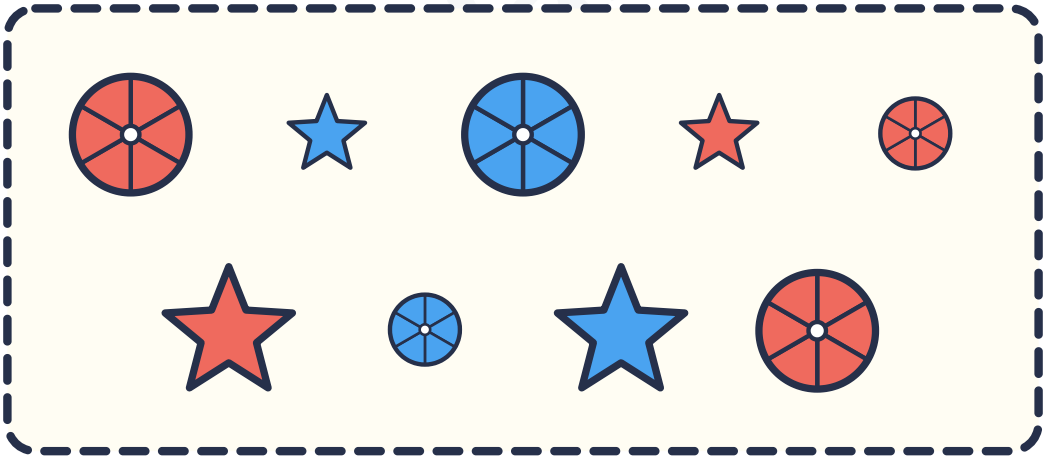
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2 How many are big?



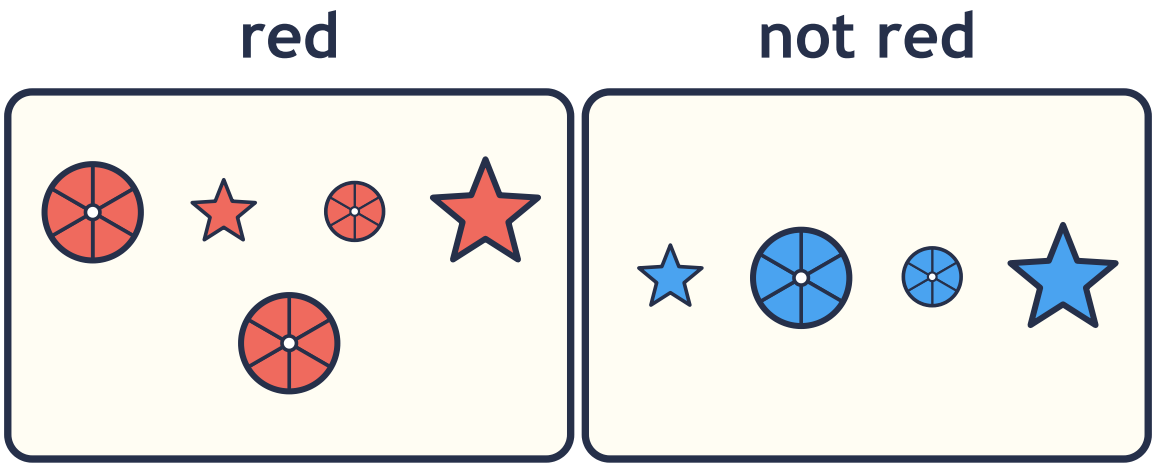
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3 How many are small?



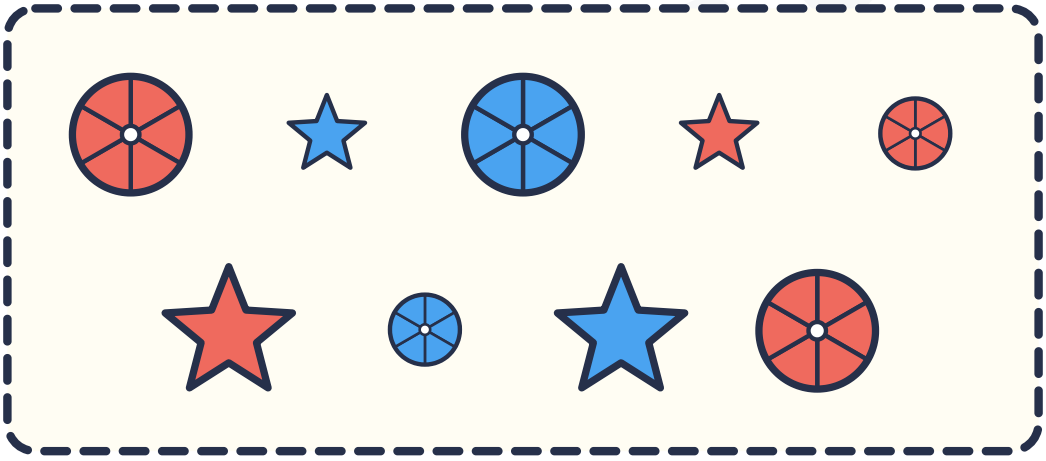
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4 Which group has more? Circle it.



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5 How many things in all?



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