Grade 1 Mathematics: Geometry and Transformations

Free sample lesson

Ontario curriculum: Mathematics (2020), Strand E (Spatial Sense), overall expectation E1. 14 days.

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This is Lesson 1 of 10 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: Sort shapes by one rule

1 day · about 41 minutes · E1.1

> **Learning goal**
>
> - We are learning to sort shapes by one feature and to say the rule.

> **Success criteria**
>
> - I can sort shapes by colour, size or shape.
> - I can say my sorting rule.

Materials

- Pattern blocks or attribute blocks
- Two sorting hoops or paper circles
- Buttons or counters
- Bags of mixed shapes

What students do with their hands

Students sort a bag of pattern blocks and buttons into two hoops, then trade places with a partner who guesses the rule.

Minds On (8 min)

1. Ask five students with different shoes or sweaters to stand in two groups. Ask: "How did I sort us?"
2. Show that the same group can be sorted a new way.

Action (25 min)

1. Model sorting a small pile of blocks into two hoops by colour. Say the rule: "All red here, all blue there."

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2. Partners sort their own bag, then sort the same blocks a different way.

3. Partners hide their rule. The other student guesses it.
4. Complete the worksheet.

Consolidation (8 min)

1. Show two sorted groups and have students whisper the rule to a partner.
2. Exit: "How are these shapes sorted?"

Questions to ask

- What is the same about the shapes in this hoop?
- Can you sort them another way?

Watch for

- Some students sort by two things at once. Ask them to pick one feature, then sort again.
- Some students think a group can only be sorted one way. Re-sort the same blocks by size.

Differentiation

Support	Extend
Sort only two colours first and use large hoops.	Sort a mixed pile three ways and name each rule.

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Answer key: Sort and find the rule

1. Circle all the red shapes.



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> **Answer:** 3 red shapes.

2. Circle all the small shapes.



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> **Answer:** 3 small shapes.

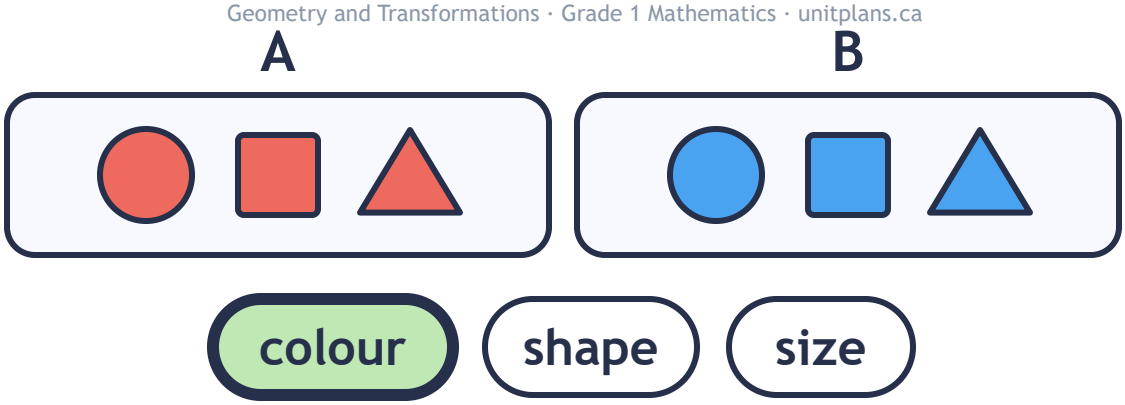
3. Circle all the squares.



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> **Answer:** 3 squares.

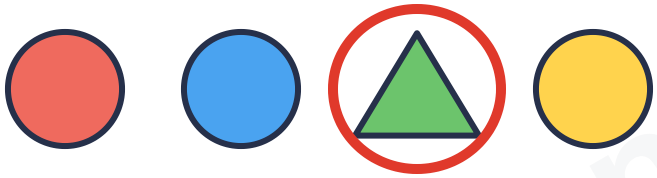
4. How were the shapes sorted? Circle one.



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> **Answer:** By colour.

5. Which shape does not belong? Circle it.



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> **Answer:** The triangle (the third shape).

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Student worksheet: Sort and find the rule

Success criteria

- I can sort shapes by colour, size or shape.
- I can say my sorting rule.

Look at the picture. Follow the question.

1 **Circle all the red shapes.**



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2 **Circle all the small shapes.**



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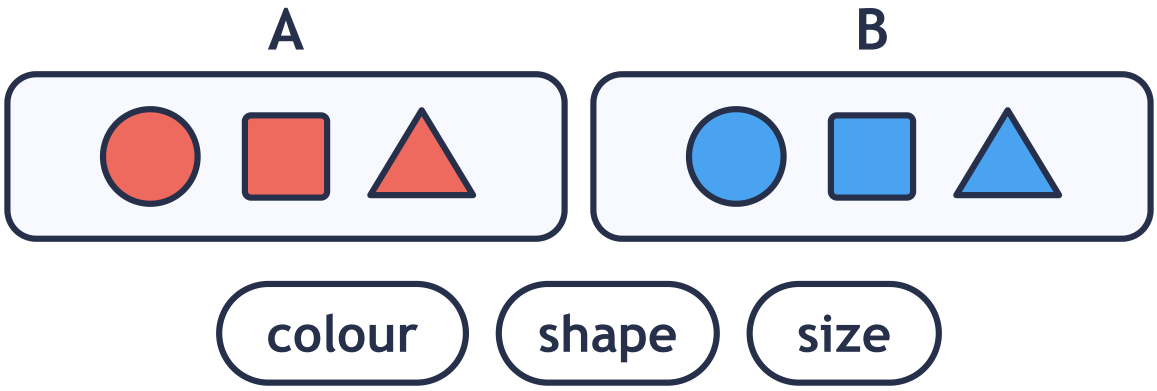
3 **Circle all the squares.**



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4 How were the shapes sorted? Circle one.



colour shape size

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5 Which shape does not belong? Circle it.



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