GRADE 1 · DATA, CHANCE AND RISK

Sort the same set by a different rule

NAME	DATE	SCORE / 10

1 Cleo has 4 toys: big ball, small ball, big cube and small cube. Cleo sorts them into big toys and small toys. What rule did Cleo use?

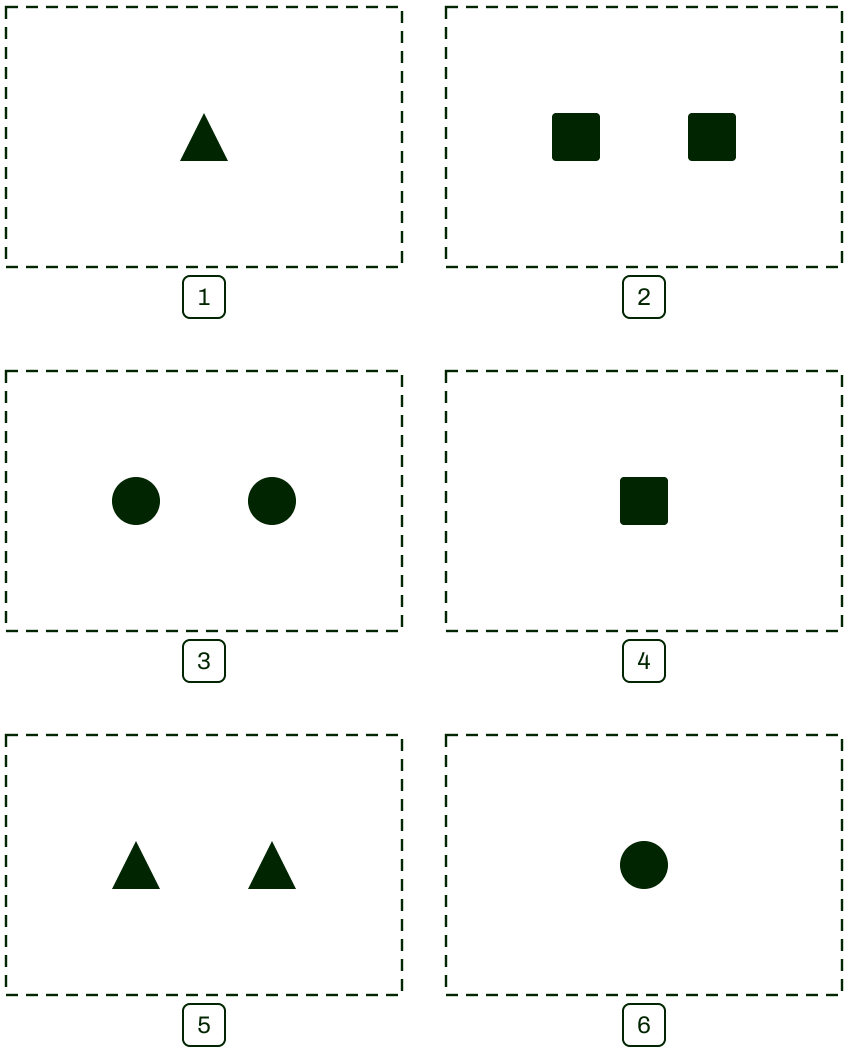
◯ By size ◯ By shape

2 I sorted the cards one way. How did I sort them? Now sort them a different way. How did you sort them?

FOR THE ADULT

1. Cut out the cards below.
2. Put them in groups by how many shapes are on the card: the cards with 1 shape and the cards with 2 shapes.
3. Ask: “How did I sort them?”
4. Mix the cards up. Say: “Now sort them a different way. How did you sort them?”
5. Do not help or show a way.

☐ Did it ☐ Not yet The child's rule: _____



3 Ana has 4 toys: big ball, small ball, big cube and small cube. Ana sorts them by size. What other rule can Ana use to sort them?

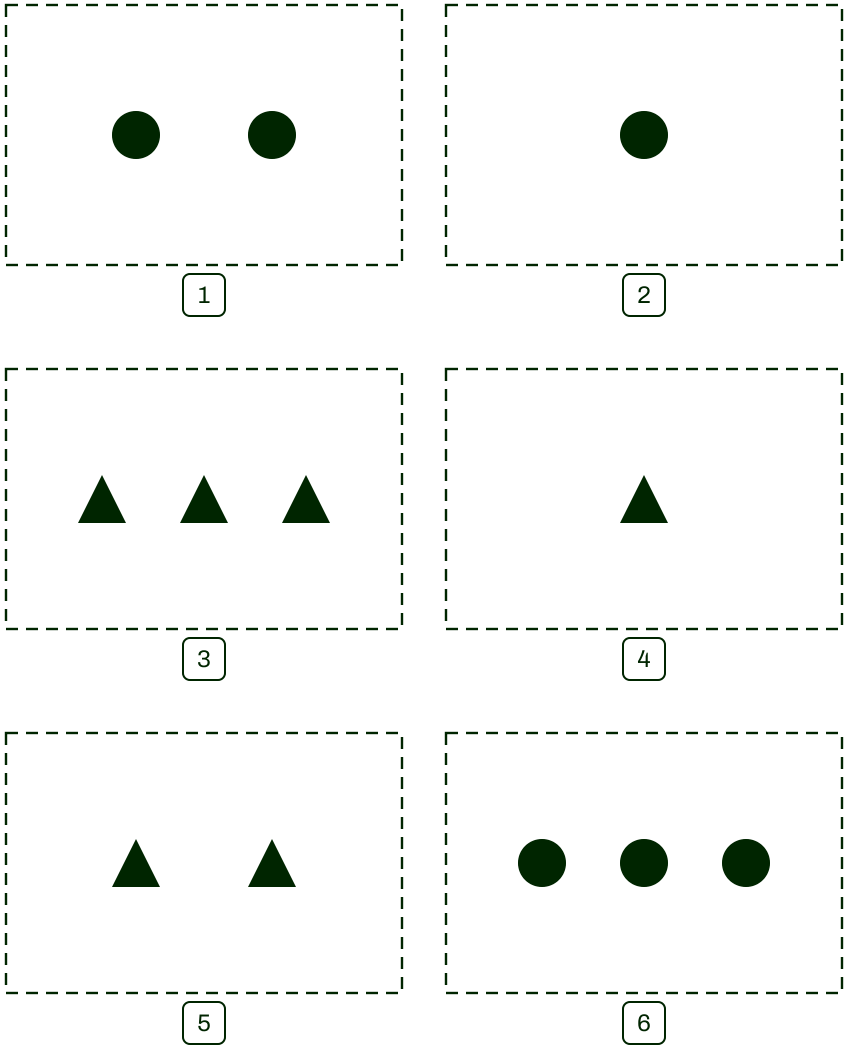
◯ By shape ◯ By size

4 I sorted the cards one way. How did I sort them? Now sort them a different way. How did you sort them?

FOR THE ADULT

1. Cut out the cards below.
2. Put them in groups by shape: the circles and the triangles.
3. Ask: “How did I sort them?”
4. Mix the cards up. Say: “Now sort them a different way. How did you sort them?”
5. Do not help or show a way.

☐ Did it ☐ Not yet The child's rule: _____



5 Ben has 4 balls: big red, small red, big blue and small blue. Ben sorts them by size. What other rule can Ben use to sort them?

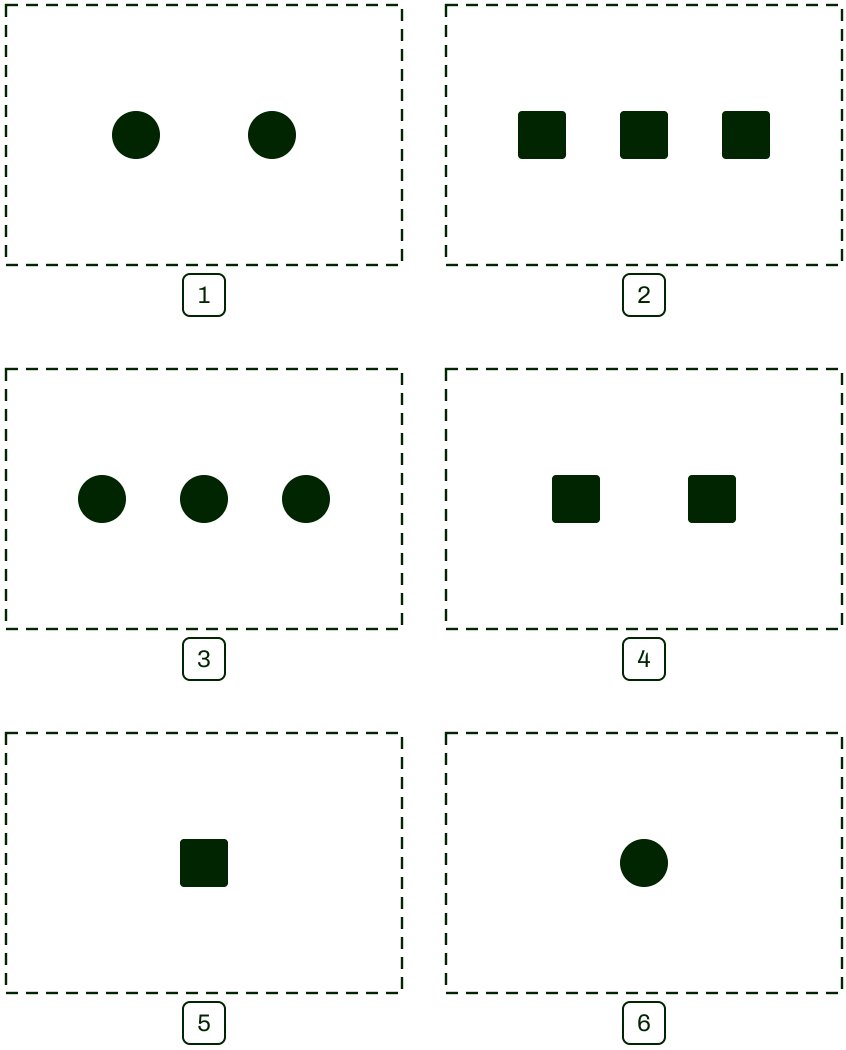
◯ By size ◯ By colour

6 I sorted the cards one way. How did I sort them? Now sort them a different way. How did you sort them?

FOR THE ADULT

1. Cut out the cards below.
2. Put them in groups by how many shapes are on the card: the cards with 1 shape, the cards with 2 shapes and the cards with 3 shapes.
3. Ask: “How did I sort them?”
4. Mix the cards up. Say: “Now sort them a different way. How did you sort them?”
5. Do not help or show a way.

☐ Did it ☐ Not yet The child's rule: _____



7 Cleo has 4 balls: big red, small red, big blue and small blue. Cleo sorts them by colour. What other rule can Cleo use to sort them?

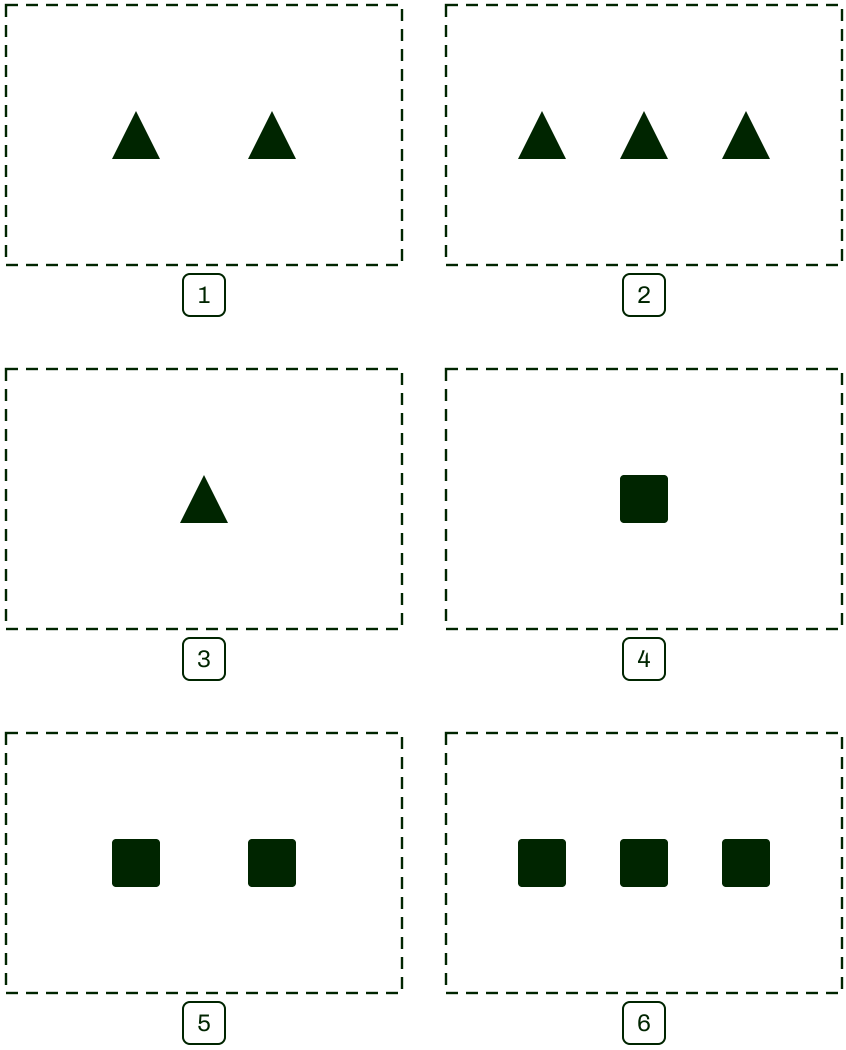
◯ By colour ◯ By size

8 I sorted the cards one way. How did I sort them? Now sort them a different way. How did you sort them?

FOR THE ADULT

1. Cut out the cards below.
2. Put them in groups by how many shapes are on the card: the cards with 1 shape, the cards with 2 shapes and the cards with 3 shapes.
3. Ask: “How did I sort them?”
4. Mix the cards up. Say: “Now sort them a different way. How did you sort them?”
5. Do not help or show a way.

☐ Did it ☐ Not yet The child's rule: _____



9 Maya has 4 toys: big ball, small ball, big cube and small cube. Maya sorts them by size. What other rule can Maya use to sort them?

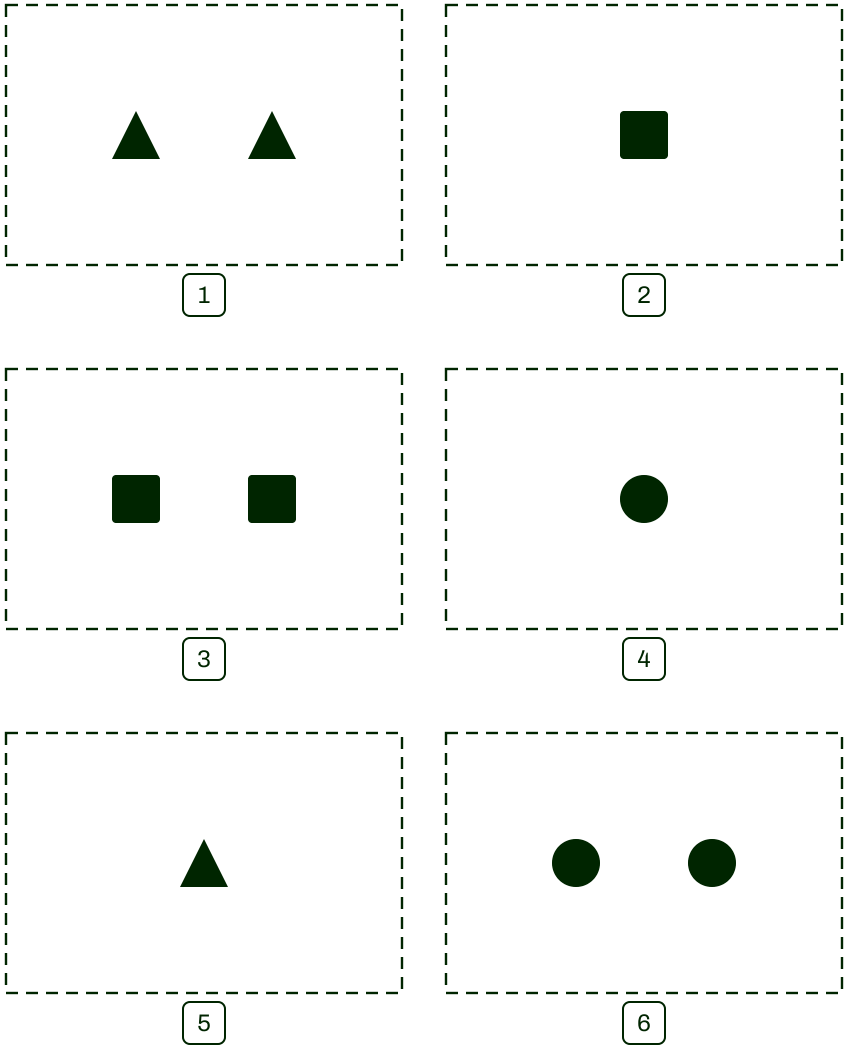
◯ By shape ◯ By size

10 I sorted the cards one way. How did I sort them? Now sort them a different way. How did you sort them?

FOR THE ADULT

1. Cut out the cards below.
2. Put them in groups by shape: the squares, the triangles and the circles.
3. Ask: “How did I sort them?”
4. Mix the cards up. Say: “Now sort them a different way. How did you sort them?”
5. Do not help or show a way.

☐ Did it ☐ Not yet The child's rule: _____



ANSWER KEY · GRADE 1 · DATA, CHANCE AND RISK

Sort the same set by a different rule

1 By size

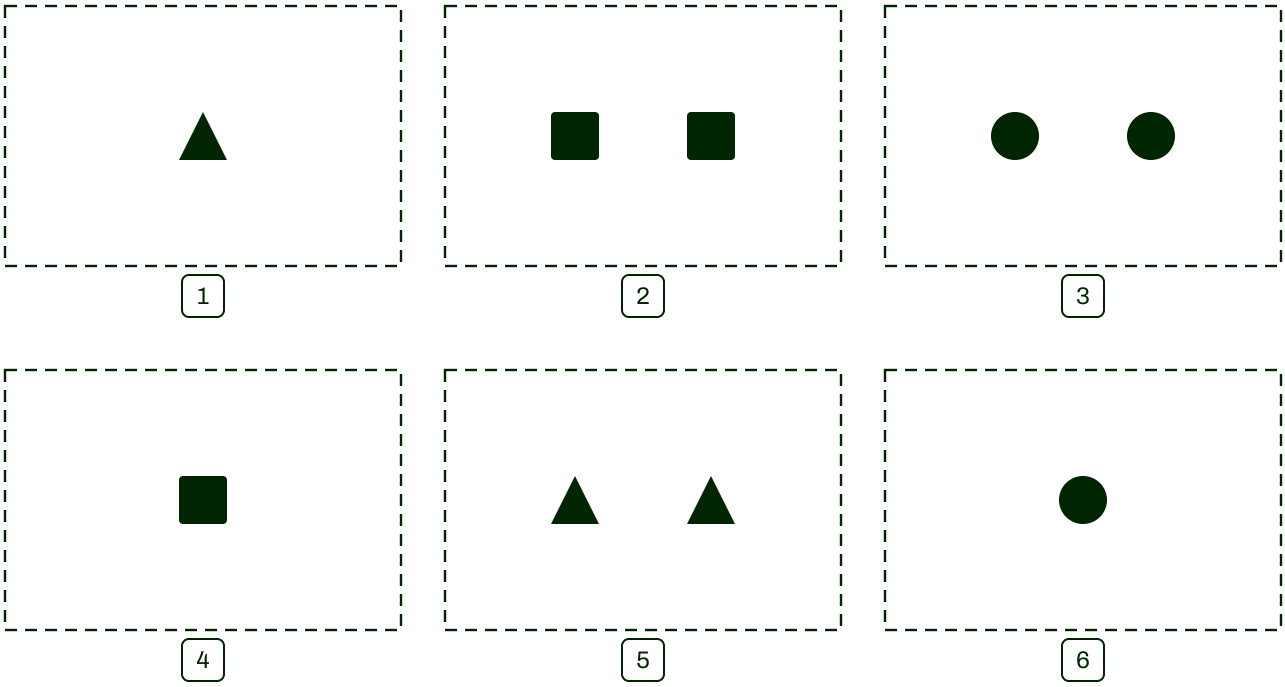
3 By shape

5 By colour

7 By size

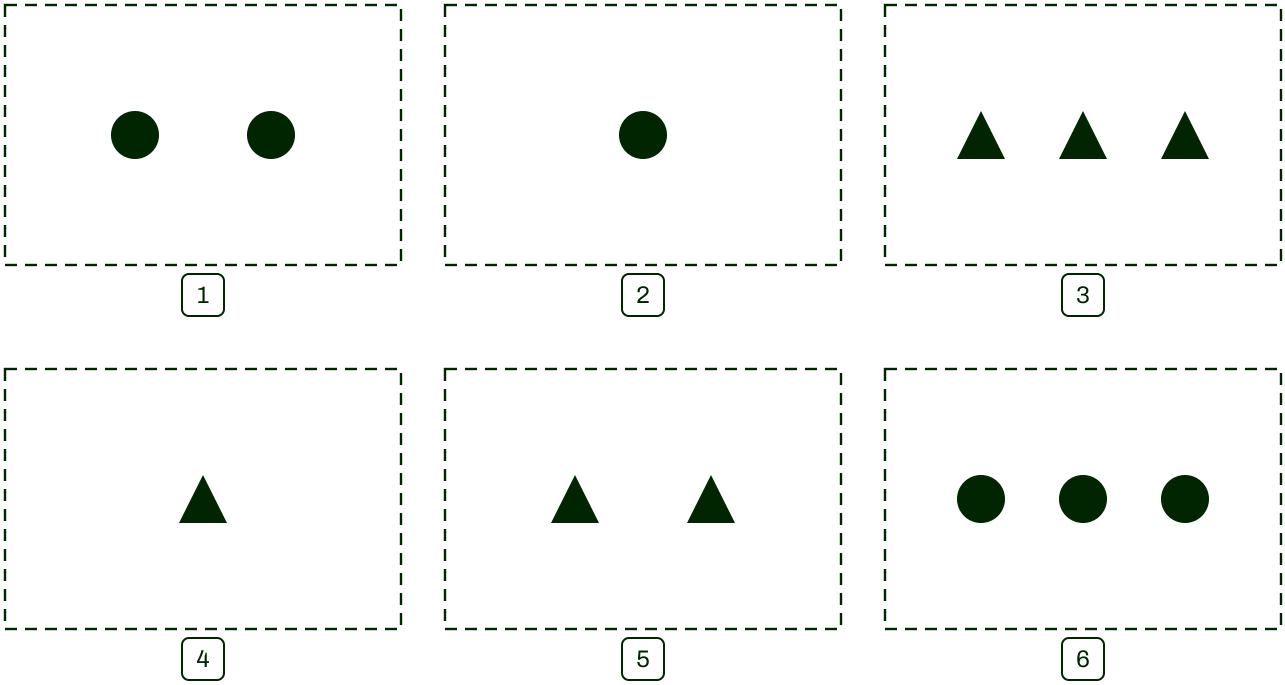
9 By shape

2 Watched by the adult



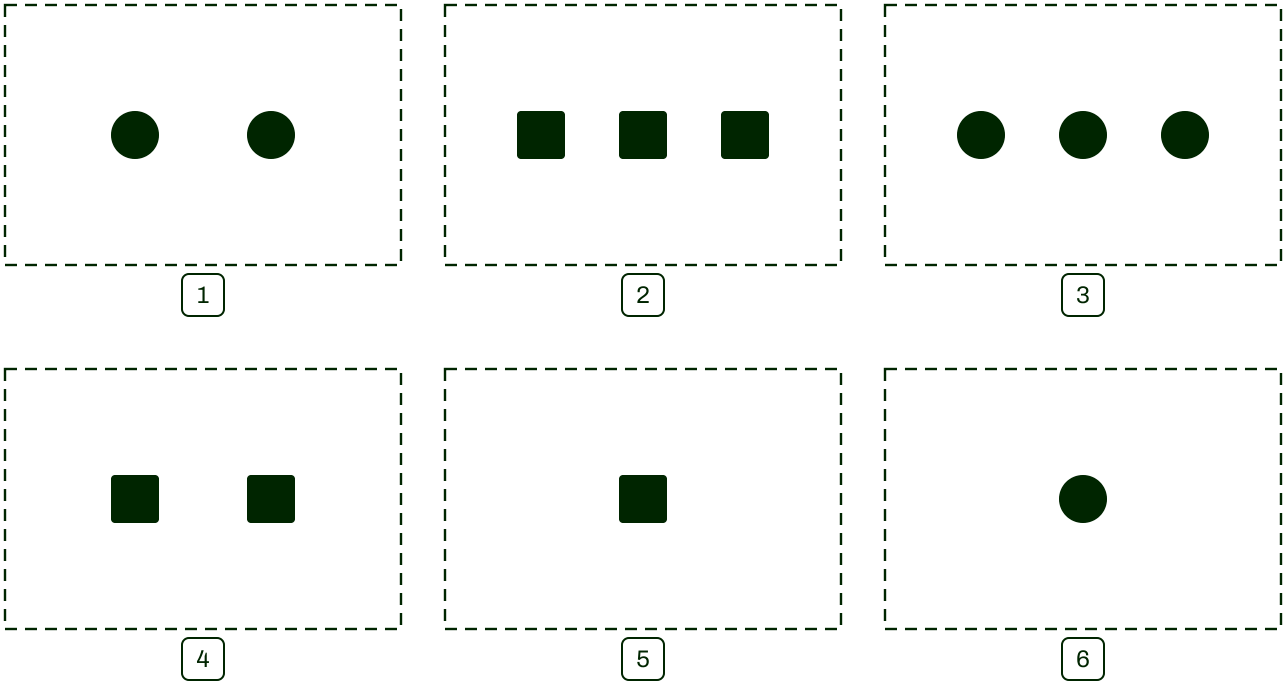
What counts as right: Says how the cards were sorted first (by how many shapes are on the card). Then sorts them again by shape: the circles, the squares and the triangles, with every card in the right group, and says the new rule in any words (“by the shapes”). Sorting them by how many shapes are on the card again, or groups that mix, is Not yet.

4 Watched by the adult



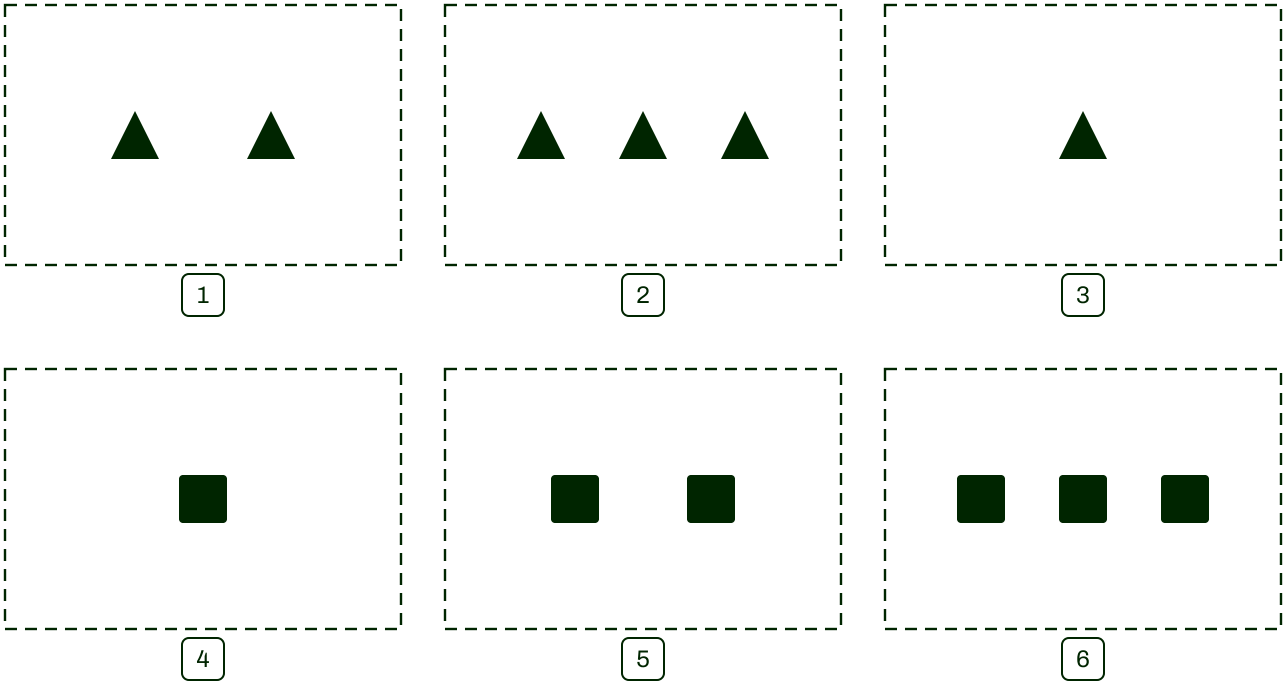
What counts as right: Says how the cards were sorted first (by shape). Then sorts them again by how many shapes are on the card: the cards with 1 shape, the cards with 2 shapes and the cards with 3 shapes, with every card in the right group, and says the new rule in any words (“by how many”). Sorting them by shape again, or groups that mix, is Not yet.

6 Watched by the adult



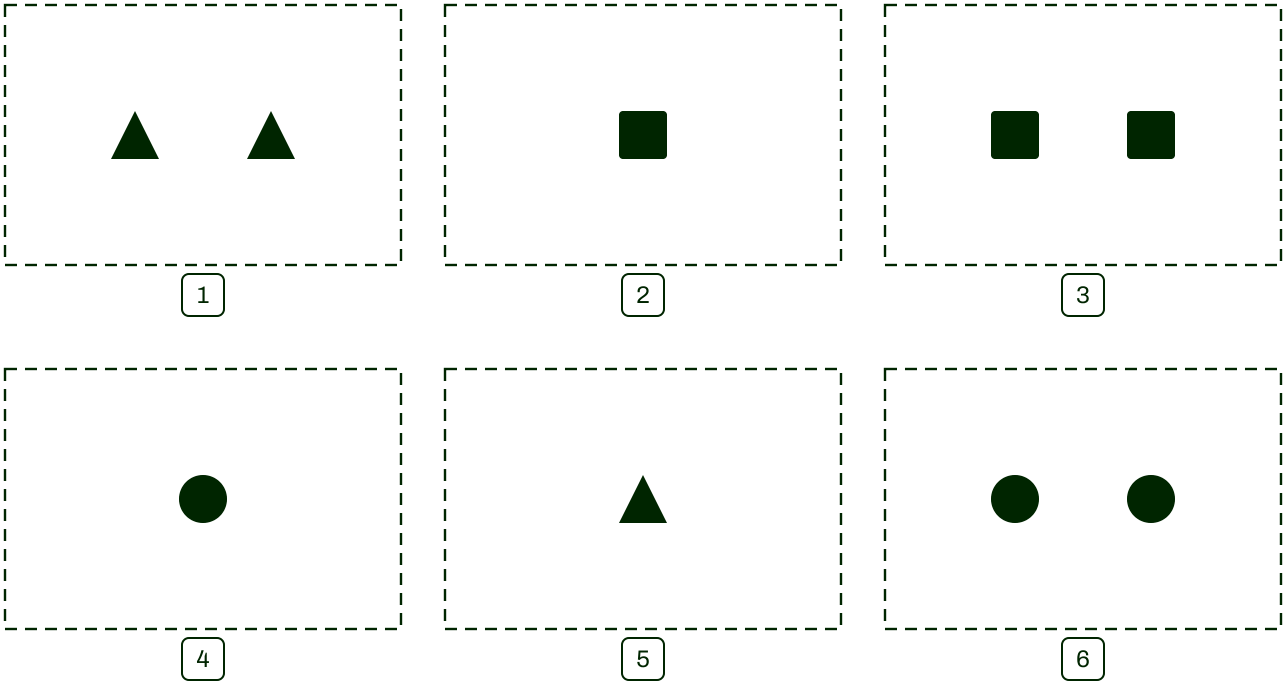
What counts as right: Says how the cards were sorted first (by how many shapes are on the card). Then sorts them again by shape: the circles and the squares, with every card in the right group, and says the new rule in any words ("by the shapes"). Sorting them by how many shapes are on the card again, or groups that mix, is Not yet.

8 Watched by the adult



What counts as right: Says how the cards were sorted first (by how many shapes are on the card). Then sorts them again by shape: the triangles and the squares, with every card in the right group, and says the new rule in any words (“by the shapes”). Sorting them by how many shapes are on the card again, or groups that mix, is Not yet.

10 Watched by the adult



What counts as right: Says how the cards were sorted first (by shape). Then sorts them again by how many shapes are on the card: the cards with 1 shape and the cards with 2 shapes, with every card in the right group, and says the new rule in any words (“by how many”). Sorting them by shape again, or groups that mix, is Not yet.