

Luna's Space Adventure

Grade 5 · The quadrilateral family tree · 5.G.B.4

Name _____

Date _____



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Every name that fits List every family the shape belongs to.

A rectangle is a... _____

A rhombus is a... _____

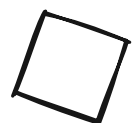
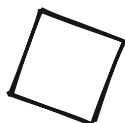
A square is a... _____

Which family? Circle the name that is true for every shape in the family.

Squares and rhombuses are all... **rectangles** **parallelograms**

Squares and rectangles are all... **rhombuses** **rectangles**

All the rectangles Circle every rectangle. Careful: some rectangles have another name too.



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ANSWER KEY



Astronaut Luna is exploring a far-off corner of space. Solve each problem to help Luna's mission go smoothly!

Every name that fits List every family the shape belongs to.

A rectangle is a... quadrilateral, parallelogram

A rhombus is a... quadrilateral, parallelogram

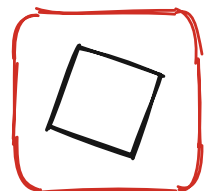
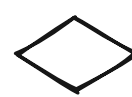
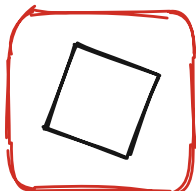
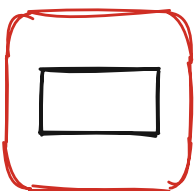
A square is a... quadrilateral, parallelogram, rectangle, rhombus

Which family? Circle the name that is true for every shape in the family.

Squares and rhombuses are all... rectangles parallelograms

Squares and rectangles are all... rhombuses rectangles

All the rectangles Circle every rectangle. Careful: some rectangles have another name too.



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GUIDE

1 What this sheet practises

Sorting quadrilaterals into a family tree and naming every family a shape belongs to: a square is a quadrilateral, parallelogram, rectangle and rhombus.

2 A problem from the sheet, worked out

Every name that fits List every family the shape belongs to.

A rectangle is a...

quadrilateral, parallelogram

A rhombus is a...

quadrilateral, parallelogram

A square is a...

quadrilateral, parallelogram, rectangle, rhombus

How: Start at the top: 4 straight sides makes a quadrilateral. Then check each family's rule: two pairs of parallel sides, four right angles, four equal sides. List every one that fits.

3 Words to know

quadrilateral any shape with 4 straight sides

hierarchy a family tree from big groups to small

right angle a square corner

rhombus a parallelogram with 4 equal sides

4 Watch for

- Giving a square just one name when it fits four families.
- Missing a rectangle that's turned at an angle, or a square standing on its corner.
- Calling every rhombus a rectangle: its corners are only sometimes right angles.

5 Where it fits

BEFORE

5.G.B.3

See that features of a shape family belong to every shape in it.

THIS SHEET

5.G.B.4

Sort two-dimensional shapes into a family tree.

6 Helping at home

Draw a family tree with quadrilateral at the top. Add shapes you find at home under every branch they belong to.