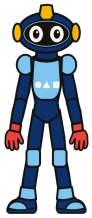
For the adult: evidence guide



Answer key | Accept drawing, pointing, marking, or spoken explanation

Card 1

Square and turned square: all three families.
Long rectangle: quadrilateral and rectangle; not a rhombus.
The turned square still has four equal sides and four right angles.
Rectangle does not mean "two long sides and two short sides."

Card 2

Order: 4 sides / all angles right / all sides equal

A square: Yes / Yes / Yes

B long rectangle: Yes / Yes / No

C equilateral triangle: No / No / Yes

D slanted rhombus: Yes / No / Yes

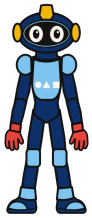
E other quadrilateral: Yes / No / No

Counterexample: D has 4 equal sides but no right angles, so it is not a square.
C has all sides equal, but only 3 sides. It does not disprove a statement
about shapes with 4 equal sides. Mark an angle of D that is not right.

Lab Project and kitchen table

Open response. The drawn figure must be closed, straight-sided, and have
four sides. Check each tick against the drawn or labeled evidence.
Rectangles and rhombuses are both quadrilaterals. Squares belong to both.
If a sketch is imprecise, ask for side lengths and angle marks before deciding.
Do not judge reasoning from neatness or speed. Assistance is allowed.

For the adult: evidence guide



Answers for the route, estimate, and cage cards.

Card 3: Repeat means less work.

Square: repeat 4 [forward 3, right].

The expanded program costs 8 blocks; the repeat program costs 3.

Rectangle: repeat 2 [forward 5, right, forward 2, right].

The rectangle program costs 5 blocks. Both routes close facing right.

Each forward, right, and repeat costs 1 block; numbers cost 0.

Accept equivalent shortest programs under the printed rules.

Card 4: Estimate first.

The four trays contain 4 x 6 = 24 cookies. Taking 3 leaves 21.

The estimate is open; compare the chosen value with 21.

Four shares of 7 use 28 cookies and leave 4.

The repair is 8 each: 4 x 8 = 32 cookies used, with 0 left.

Card 5: Locked Cages

Rows: 1 2 3 / 3 1 2 / 2 3 1. Every row and column uses 1, 2, 3.

Top-left cage: 1 + 2 + 3 = 6. Right cage: 3 + 2 = 5.

Remaining cage: 1 + 2 + 3 + 1 = 7.

The given 2 agrees with the completed grid.

Accept any grid that satisfies all the printed rules.