

Model Detective

Students compare simple models, read dot data, and check a design against a rule.

1.2 "Scientific and engineering practices. The student analyzes and interprets data to derive meaning, identify features and patterns, and discover relationships or correlations to develop evidence-based arguments or evaluate designs..."

NAME _____

DATE _____

Teacher: this page is run aloud. The script and answers are on the guide page.

1 CIRCLE IT _____

a	Yes	Maybe	No
b	● ● ● ●	● ● ● ● ● ●	● ● ● ● ●
c			

2 MATCH SIDES _____

	•	•	6
	•	•	3
	•	•	4

HOW TO RUN THIS PAGE

Read each prompt aloud and pause while students make one mark. Students use a model's size, count data, and shape properties as evidence when they choose or match.

Students never read directions on this sheet. Read each part's script aloud, then each prompt, giving think time before students mark.

PART 1 • CIRCLE IT

SAY “Listen to each question. Look at the choices in the row, then circle one answer.”

ROW	SAY	STUDENTS CIRCLE
a	A small paper model is used to show a much bigger square floor tile. Can the model show the real tile's size? Read yes, maybe, and no. Which answer should you circle?	No
b	Look at the three dot groups. Which group has more dots? Which group should you circle?	6 dots
c	A design must have 4 equal sides. Look at the square, rectangle, and trapezoid. Which design works as intended?	square

PART 2 • MATCH SIDES

SAY “Each shape has straight sides. Draw a line from each shape on the left to the number on the right that tells how many sides it has.”

- **triangle** matches **3**
- **square** matches **4**
- **hexagon** matches **6**

WHAT TO ACCEPT

Circle-row answers are No, 6 dots, and square. Match triangle to 3, square to 4, and hexagon to 6; accept clear lines even if they cross.