

Draw Parts of Sets

Represent, write and name fractions of whole sets.

2.NS.3.e.iii "Given a context, represent, name, and write fractional parts of a whole for halves, fourths, eighths, thirds, and sixths using: set models (e.g., chips, counters, cubes)."

NAME _____

DATE _____

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

1 CARS AND APPLES

A

B

2 MARBLES AND CRAYONS

C

D

3 BADGES AND PIECES _____

E

F

HOW TO RUN THIS PAGE

Grade 2 teacher-led drawing activity. Give each learner a pencil. Read one box prompt at a time and pause while children draw and write. Before starting, demonstrate on separate paper: draw 8 separate counters and shade 5; write $\frac{5}{8}$ and say five eighths. Explain that the denominator counts the whole set and the numerator counts the shaded part. Students make their own models in six empty boxes; all five required denominators are practiced.

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

PART 1 • CARS AND APPLES

SAY “In box A, draw a set of 2 toy cars as separate circles. One car is red: shade one circle. Write the fraction that is red and say its name. In box B, draw a set of 3 apples as separate circles. Two apples are red: shade that part. Write the fraction that is red and say its name.”

- Box 1 (beside A): **2 separate circles, 1 shaded; $\frac{1}{2}$, one half.**
- Box 2 (beside B): **3 separate circles, 2 shaded; $\frac{2}{3}$, two thirds.**

PART 2 • MARBLES AND CRAYONS

SAY “In box C, draw a set of 4 marbles as separate circles. Three marbles are blue: shade that part. Write the fraction that is blue and say its name. In box D, draw a set of 6 crayons as separate circles. Four crayons are purple: shade that part. Write the fraction that is purple and say its name.”

- Box 1 (beside C): **4 separate circles, 3 shaded; $\frac{3}{4}$, three fourths.**
- Box 2 (beside D): **6 separate circles, 4 shaded; $\frac{4}{6}$, four sixths.**

PART 3 • BADGES AND PIECES

SAY “In box E, draw a set of 8 badges as separate circles. Three badges have stars: shade that part. Write the fraction with stars and say its name. In box F, draw a set of 4 game pieces as separate circles. One piece is dark and three are light. Shade the dark piece. Write and name the dark fraction and the light fraction. Tell how both parts make the whole set.”

- Box 1 (beside E): **8 separate circles, 3 shaded; $\frac{3}{8}$, three eighths.**
- Box 2 (beside F): **4 separate circles, 1 shaded; dark $\frac{1}{4}$ (one fourth), light $\frac{3}{4}$ (three fourths). One plus three is all four.**

WHAT TO ACCEPT

Use each box for the drawing and its fraction below. Require a complete set of separate objects and the correct shaded part. Listen to each fraction name; spelling is not assessed. Accept any arrangement and do not require simplification. Prompt children to count all objects, including the unshaded ones. For box F, both fractions keep denominator 4 because they refer to the same whole set.