FOR GROWN-UPS

Answer Key

The load-bearing idea is EQUAL parts (page 2) — if she wobbles later, come back there. At snack time, cut something real into halves and quarters and have her name the fractions; the kitchen is the best worksheet.

2 · Fair Shares

- Ex 1 (a–e): FAIR, UNFAIR, FAIR, UNFAIR, UNFAIR
- Ex 2: any straight cut through the bar's middle (and through the pie's center) making two equal parts

3 · The Half

- Ex 1: circle a, b, and c. NOT d (one of THREE parts = ⅓) and NOT e (the parts aren't equal — Sam's cut!)
- Ex 2: shade either part of each, and write ½ in each box (1 on top, 2 on the bottom)
- Ex 3: NO — the parts aren't equal, so the big piece is not a half (rule from page 2!)

4 · Quarters & Thirds

- Ex 1 (left to right): 1/4, 1/3, 1/4, 1/3
- Ex 2: shade any ONE part of each

5 · Counting Pieces

- Ex 1 (left to right): 2/3, 3/4, 2/4, 5/6
- Ex 2: shade any 2 of 3 · any 3 of 4 · any 4 of 6
- Ex 3: shaded 3/4 · NOT shaded 1/4 (together they make the whole bar!)

6 · Fraction of a Set

- Ex 1: ½ of 6 = 3 cupcakes
- Ex 2: ⅓ of 6 = 2 · ¼ of 8 = 2
- Ex 3: 4 muffins (½ of 8 — deal the printed muffins into 2 equal groups)
- Ex 4: the cat is wrong — ½ of 6 is 3. The bottom number says make 2 equal groups; the top number says take 1 of those GROUPS, not 1 cupcake

7 · The Skinny-Slice Trap

- Ex 1a: LEFT (1/2 vs 1/4)
- Ex 1b: LEFT (3/4 vs 1/4)
- Ex 1c: RIGHT (1/3 vs 1/2)
- Ex 2: KEEP (½ beats ⅓) · TRADE! (¾ beats ¼ — same-size pieces, he's offering more) · KEEP (⅓ beats ¼)
- Ex 3: Penelope — half a pizza beats a quarter of the SAME pizza, no matter how fancy the quarter sounds

8 · Making the Whole

- Ex 1: 2 halves · 4 quarters · 3 thirds
- Ex 2: shade the other 2 parts; the shaded fraction is now 3/3 = the whole pie
- Ex 3: 4 quarters make the whole chocolate bar — 4/4 = 1 whole

9 · The Bakery Rush

- Ex 1: A–order 2 (½), B–order 1 (¾), C–order 5 (⅔), D–order 3 (⅙). Order 4 (¼) is Sam's FAKE ticket — it matches no treat; it's bait for miscounting B or D
- Ex 2: NO — 2/4 and 1/2 cover exactly the same amount of pizza
- Ex 3: ¼ of 8 = 2 cupcakes (look for her drawn box of 8 dealt into 4 groups)