

# SKILL BOOSTERS: FRACTION CONCEPTS

Description	Problem prompts / examples	Reference Gr 6, RG1
notation	Write 4 divided by 10 in three different ways Write $4/10$ in three different ways Write $4 \div 10$ in three different ways Write $10 \overline{)4}$ in three different ways	pg 18
fractions models	Draw a picture of $\frac{1}{4}$ using a set model. Draw a picture of $\frac{1}{4}$ using an area model. Draw a picture of $\frac{1}{4}$ using a linear model.	pg 29-30
order fractions	Place $\frac{1}{2}$ , $\frac{1}{3}$ and $\frac{3}{4}$ on a number line. Explain reasoning.	pg 31
equivalence with diagrams	Show that $\frac{1}{2} = \frac{2}{4}$ using a splitting diagram Show $\frac{1}{2} = \frac{2}{4}$ using replicating diagram Show $\frac{2}{4} = \frac{1}{2}$ using a grouping diagram.	pg 33-34
equivalence with "big 1"	Use the "big 1" to find n: $\frac{3}{4} = n/12$ Use the "big 1" write $24/28$ in simplest form.	pg 32
equivalence with mixed numbers	Write $3 \frac{3}{4}$ as the sum. Write $3 \frac{3}{4}$ as an improper fraction Write $8/3$ as a mixed number and as a sum.	pg 34-35
number lines	Locate $5 \frac{1}{2}$ on a number line. Locate $-2 \frac{3}{4}$ on a number line. (if pkt 14 is done earlier)	pg 34

Skills rotation: Each week students practice four of the skills daily.

5 weeks	A	B	C	D (Whole numbers)
Week 1	notation	fraction models	order fractions	mult by 10n, whole (add/subt)
Week 2	equiv (diagram)	equiv (big 1)	equiv (mixed #s)	identify factors, whole (mult)
Week 3	notation	equiv (diag)	number lines	LCM/GCF whole (div)
Week 4	equiv (big 1)	fraction models	order fractions	order of ops whole (mult)
Week 5	number lines	equiv (mixed #)	order fractions	whole (div) number line

Example (Week 1): Write problems on board. Students do work in a notebook or on a provided template.

Wk 1	A	B	C	D (Whole numbers)
Day 1	Write 3 divided by 12 in three different ways	Draw $\frac{3}{4}$ using a set model.	Place $\frac{1}{2}$ , $\frac{1}{3}$ , $\frac{3}{4}$ on number line. Explain.	Compute: $500 + 82 - 75$
Day 2	Write 12 divided by 4 in three different ways	Draw $\frac{2}{5}$ using a linear model	Place $\frac{1}{5}$ , $\frac{1}{8}$ , $\frac{1}{4}$ on number line. Explain	Compute: $23 \times 1000$ , $23 \times 10$
Day 3	Write $4/10$ in three different ways	Draw $5/9$ using an area model	Place $\frac{3}{4}$ , $3/5$ , $3/8$ on number line. Explain.	Compute: $10002 - 45$
Day 4	Wrote $15/2$ in three different ways	Draw $1 \frac{2}{3}$ using an area model.	Place $\frac{3}{4}$ , $7/8$ , $4/5$ on number line. Explain.	Compute: $532 \times 10,000$

Name \_\_\_\_\_ Period \_\_\_\_\_ Week of \_\_\_\_\_

A		
B		
C		
D		

List the skills worked on this week, and rank your comfort with the skill.

Skill	don't get it	kind of get it	really get it
	1	2	3
	1	2	3
	1	2	3
	1	2	3