

Fractions Review

Nov 7/13

① changing mixed to improper

a) $3\frac{2}{7}$

$$= \frac{3 \times 7 + 2}{7}$$

$$= \frac{23}{7}$$

b) $-5\frac{1}{8}$

$$= \frac{-5 \times 8 + 1}{8}$$

$$= \frac{-41}{8}$$

② write in lowest terms → divide top/bottom by 2, 3, 5, 7, 11

a) $\frac{6 \div 2}{8 \div 2}$

$$= \frac{3}{4}$$

b) $\frac{-30 \div 5}{35 \div 5}$

$$= \frac{-6}{7}$$

c) $\frac{-42 \div 6}{18 \div 6}$

$$= \frac{-7}{3}$$

Remember to take the sign with you to the answer

③ Multiplying Fractions

a) $-1\frac{3}{5} \times \frac{3}{4}$ Change to improper fractions

$$= -\frac{8}{5} \times \frac{3}{4}$$

Multiply the numerators
Multiply the denominators

$$= \frac{-24 \div 4}{20 \div 4}$$

Reduce

$$= -\frac{6}{5}$$

④ Dividing Fractions

$$a) -\frac{2}{9} \div -\frac{13}{3}$$

$$= -\frac{2}{9} \times -\frac{3}{13}$$

Change to improper fractions
Flip the second fraction and change the division to multiplication

$$= \frac{6 \div 3}{117 \div 3}$$

Reduce

$$= \frac{2}{39}$$

⑤ Adding fractions

$$a) -\frac{3}{5} + (-2\frac{1}{4})$$

$$= -\frac{3}{5} + (-\frac{9}{4})$$

$$= \frac{-12}{20} + \frac{-45}{20}$$

$$= \frac{-57}{20}$$

⑥ Subtracting fractions

same as addition

- find a common denominator
- subtract the numerators
- reduce

Multiply the denominators to find a common one

Multiply tops & bottoms

Add the numerators

Practice
wksp: Fractions
Review
#1-5