

CHAPTER 3. FRACTIONS (分数)

- Write the following fractions in numerals.
 - One - sixth
 - Eleven - hundredths
 - Twenty four - thousandths
 - Seven - twelfths
- Write the following fractions in words.
 - $\frac{2}{7}$
 - $\frac{3}{20}$
 - $\frac{18}{21}$
 - $\frac{51}{100}$
- What fraction is 23 minutes of 1 hour?
- What fraction of the alphabet do the vowels represent?
- If Lily attends school for 3 days in a week, what is the fraction of a week is this?
- A baby sleeps $\frac{1}{3}$ of 24 hours in a day. How many hours of sleep does he get?
- Reduce the following fractions to their lowest terms.
 - $\frac{35}{50}$
 - $\frac{64}{88}$
 - $\frac{85}{300}$
 - $\frac{625}{1000}$
 - $\frac{525}{1155}$
 - $\frac{70}{120}$
 - $\frac{10}{10}$
 - $\frac{11}{33}$
- Express each of these improper fractions as whole or mixed numbers.
 - $\frac{22}{7}$
 - $\frac{41}{9}$
 - $\frac{111}{11}$
 - $\frac{84}{5}$
 - $\frac{110}{9}$
 - $\frac{128}{4}$
 - $\frac{100}{3}$
 - $\frac{37}{5}$
- Express each of these mixed numbers as improper fractions.
 - $7\frac{2}{5}$
 - $5\frac{1}{2}$
 - $1\frac{3}{11}$
 - $4\frac{1}{15}$
 - $11\frac{5}{12}$
 - $9\frac{4}{12}$
 - $30\frac{2}{5}$
 - $56\frac{1}{9}$
- Arrange the fractions $\frac{1}{4}$, $\frac{5}{6}$, $\frac{4}{9}$, $\frac{7}{12}$ in ascending order.
- Arrange the fractions $\frac{1}{2}$, $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$ in descending order.

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12. Which of the two fractions is smaller?

a. $\frac{5}{11}$, $\frac{8}{11}$

c. $\frac{4}{13}$, $\frac{4}{17}$

e. $\frac{1}{16}$, $\frac{1}{4}$

g. $\frac{2}{3}$, $\frac{3}{4}$

b. $\frac{3}{10}$, $\frac{9}{10}$

d. $\frac{5}{9}$, $\frac{5}{7}$

f. $\frac{5}{12}$, $\frac{1}{4}$

h. $\frac{7}{11}$, $\frac{3}{5}$

13. Which of the two fractions is the largest?

a. $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{8}$

c. $\frac{3}{4}$, $\frac{7}{8}$, $\frac{3}{16}$

e. $2\frac{3}{4}$, $4\frac{2}{3}$

g. $3\frac{8}{9}$, $3\frac{7}{9}$

b. $\frac{1}{7}$, $\frac{6}{7}$, $\frac{4}{7}$

d. $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{2}$

f. $4\frac{1}{2}$, $2\frac{3}{4}$

h. $2\frac{4}{7}$, $2\frac{3}{5}$

14. Simplify the following:

a. $\frac{4}{11} + \frac{7}{11}$

c. $\frac{3}{5} + \frac{2}{7}$

e. $\frac{1}{4} + \frac{5}{12} - \frac{3}{8}$

g. $\frac{5}{8} + \frac{7}{10} - \frac{7}{20}$

i. $\frac{1}{2} + \frac{3}{4} - \frac{3}{8} - \frac{5}{16}$

b. $\frac{11}{12} - \frac{5}{12}$

d. $\frac{2}{3} - \frac{4}{7}$

f. $\frac{3}{8} + \frac{5}{12} + \frac{1}{6}$

h. $\frac{2}{3} - \frac{1}{12} + \frac{1}{4}$

j. $\frac{2}{5} + \frac{1}{2} - \frac{3}{7} + \frac{3}{10}$

15. Evaluate the following:

a. $2\frac{3}{8} + 1\frac{1}{6}$

c. $2\frac{1}{7} + 3\frac{5}{8}$

e. $2\frac{1}{2} - 3\frac{1}{3}$

g. $7\frac{1}{5} - 3\frac{3}{10}$

i. $7\frac{7}{9} - 4\frac{2}{3} + 8\frac{3}{5}$

k. $5\frac{7}{8} - 3\frac{5}{6} - 1\frac{3}{4}$

m. $12 - 3\frac{7}{10} - \frac{4}{5}$

b. $3\frac{1}{6} + 2\frac{4}{9}$

d. $3\frac{2}{5} - 1\frac{5}{7}$

f. $6\frac{7}{8} - 3\frac{1}{2}$

h. $3\frac{3}{4} + 1\frac{2}{3} - 1\frac{1}{2}$

j. $4\frac{1}{7} + 3\frac{1}{3} - 4\frac{5}{6}$

l. $1\frac{1}{2} + 2\frac{7}{10} - \frac{3}{4} - \frac{4}{5}$

n. $3\frac{4}{9} - 4\frac{7}{12} + 2\frac{1}{4}$