CONTENTS

GRADE 5

ISBN: 978-1-927042-14-4

9 Fractions

WORDS TO LEARN

Fraction – a number showing a part of a whole

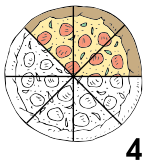
Proper fraction – a fraction with the numerator smaller than the denominator

Improper fraction – a fraction with the numerator greater than the denominator

Mixed number – a number formed by a whole number and a proper fraction

Equivalent fractions – fractions that represent the same value

Simplest form – a fraction in which the numerator and denominator have only 1 as their common factor



$\frac{3}{8}$ are coloured.

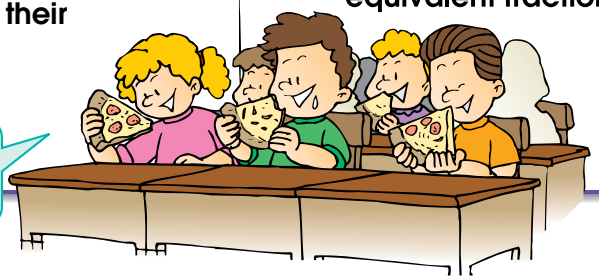
$\frac{4}{5}$ Proper fraction

$\frac{7}{3}$ Improper fraction

$1\frac{3}{4}$ Mixed number

$\frac{1}{2} = \frac{2}{4}$, $\frac{1}{2}$ and $\frac{2}{4}$ are equivalent fractions.

$\frac{2}{5}$ and $\frac{7}{9}$ are fractions in simplest form.



Use division to change the improper fractions to mixed numbers.

① $\frac{9}{7} =$ _____

② $\frac{4}{3} =$ _____

③ $\frac{7}{2} =$ _____

④ $\frac{19}{4} =$ _____

⑤ $\frac{15}{8} =$ _____

⑥ $\frac{20}{9} =$ _____

⑦ $\frac{16}{7} =$ _____

⑧ $\frac{10}{9} =$ _____

⑨ $\frac{21}{5} =$ _____

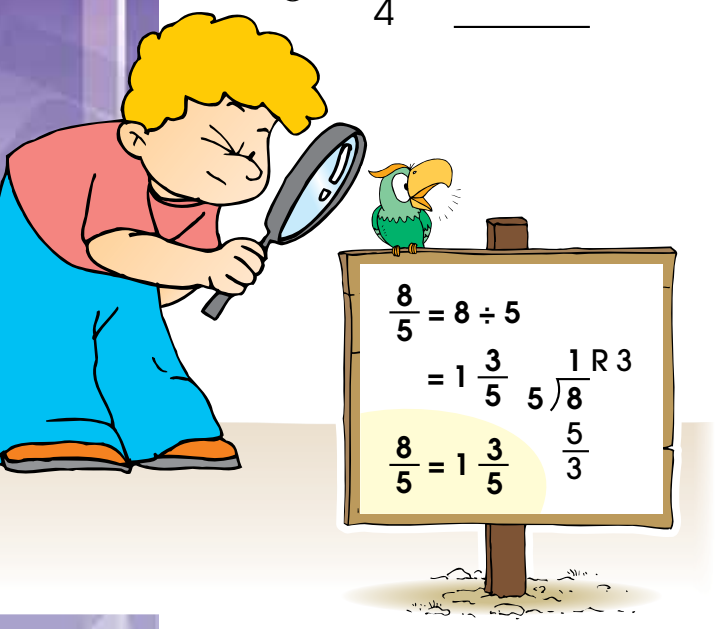
⑩ $\frac{15}{4} =$ _____

⑪ $\frac{17}{6} =$ _____

⑫ $\frac{25}{8} =$ _____

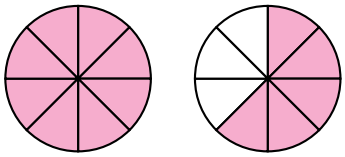
⑬ $\frac{9}{4} =$ _____

⑭ $\frac{13}{5} =$ _____



ISBN: 978-1-927042-14-4

Change the mixed numbers to improper fractions.



$1\frac{5}{8} = \frac{1 \times 8 + 5}{8} = \frac{13}{8}$

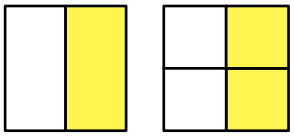
Multiply the whole number by the denominator and add the numerator.

⑮ $2\frac{1}{3} =$ _____ ⑯ $1\frac{3}{7} =$ _____ ⑰ $2\frac{1}{5} =$ _____

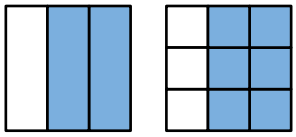
⑱ $1\frac{4}{9} =$ _____ ⑲ $4\frac{2}{3} =$ _____ ⑳ $5\frac{7}{8} =$ _____

㉑ $2\frac{1}{6} =$ _____ ㉒ $1\frac{3}{4} =$ _____ ㉓ $7\frac{1}{3} =$ _____

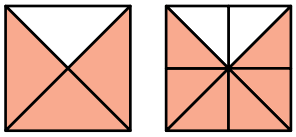
Write the equivalent fractions.

㉔ 

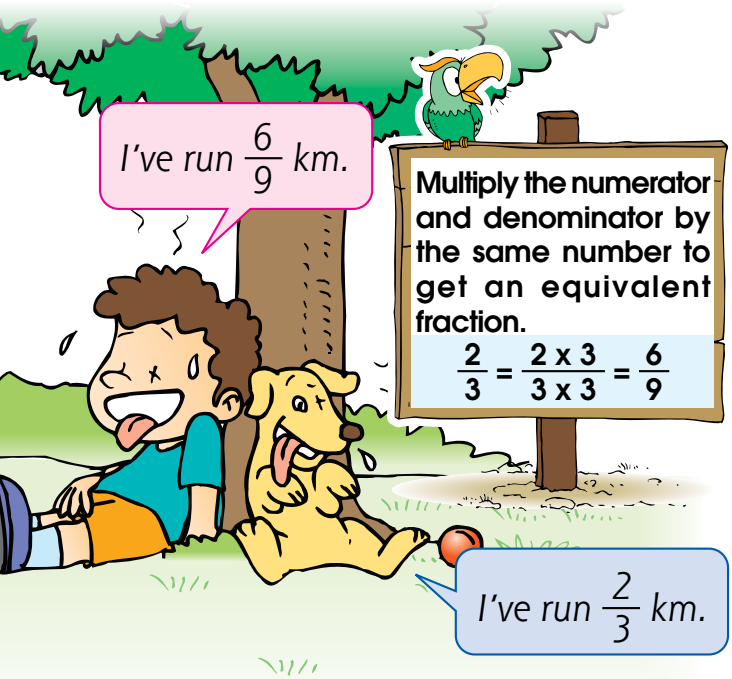
$\frac{1}{2} = \frac{\quad}{4}$

㉕ 

$\frac{2}{3} = \frac{\quad}{9}$

㉖ 

$\frac{3}{4} = \frac{6}{\quad}$



㉗ $\frac{4}{7} \overset{\times 3}{=} \frac{\quad}{21}$ ㉘ $\frac{2}{5} \overset{\times 2}{=} \frac{\quad}{10}$

㉙ $\frac{5}{6} = \frac{\quad}{12}$ ㉚ $\frac{1}{4} = \frac{\quad}{12}$

㉛ $\frac{7}{10} = \frac{\quad}{30}$ ㉜ $\frac{5}{8} = \frac{\quad}{24}$

㉝ $\frac{1}{3} = \frac{\quad}{15}$ ㉞ $\frac{6}{7} = \frac{\quad}{28}$

㉟ $\frac{7}{8} = \frac{\quad}{16}$ ㊱ $\frac{2}{3} = \frac{\quad}{18}$

$\frac{2}{3}$ *and* $\frac{6}{9}$ *are equivalent fractions. Billy and his dog have run the same distance.*

ISBN: 978-1-927042-14-4

Write the fractions in simplest form.

㊲ $\frac{20}{30} = \frac{\quad}{3}$

㊳ $\frac{16}{20} = \frac{\quad}{5}$

㊴ $\frac{12}{15} =$ _____

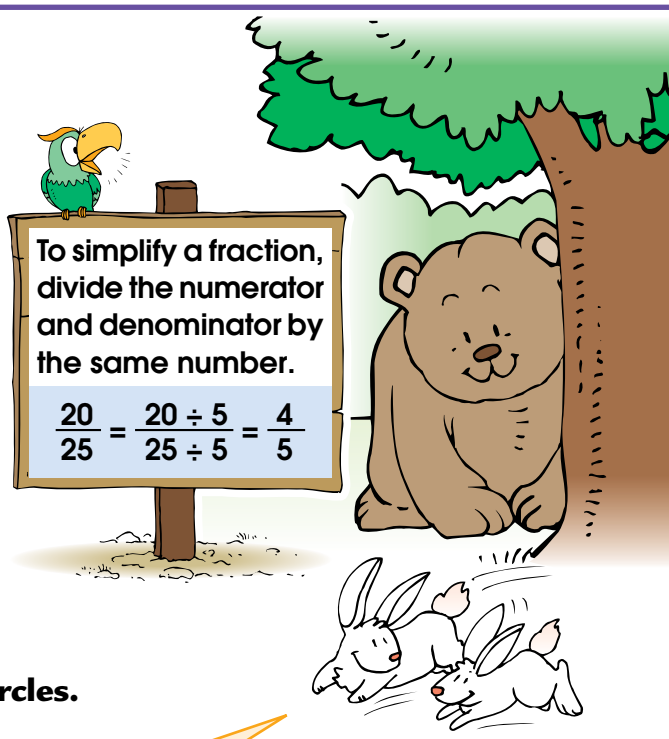
㊵ $\frac{42}{54} =$ _____

㊶ $\frac{6}{36} =$ _____

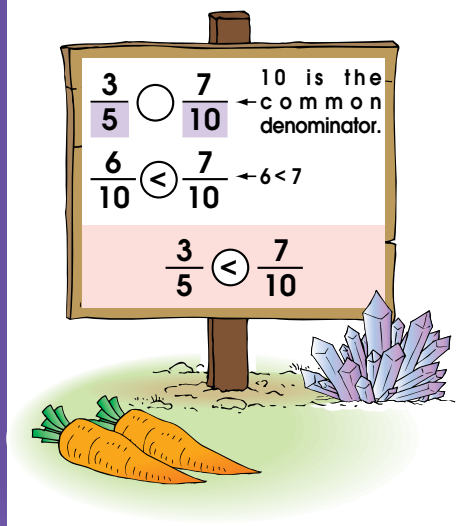
㊷ $\frac{63}{81} =$ _____

㊸ $\frac{8}{12} =$ _____

㊹ $\frac{18}{24} =$ _____



Compare the fractions. Put ">" or "<" in the circles.



To compare fractions, find a common denominator and compare the numerators.

㊺ $\frac{2}{3} \bigcirc \frac{5}{6}$

㊻ $\frac{4}{7} \bigcirc \frac{5}{14}$

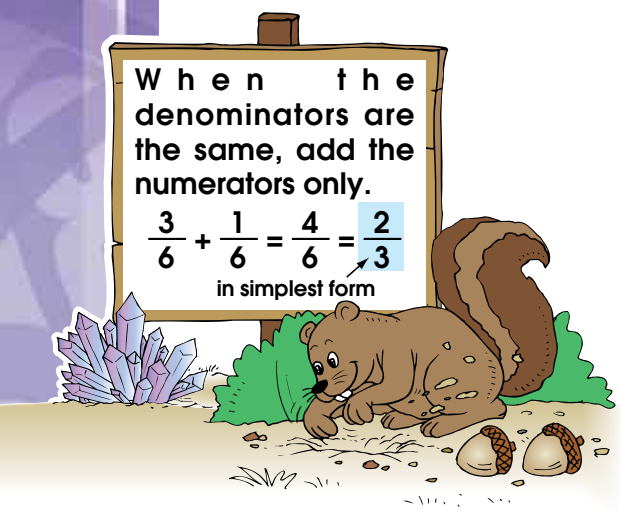
㊼ $\frac{8}{9} \bigcirc \frac{25}{27}$

㊽ $\frac{11}{24} \bigcirc \frac{3}{8}$

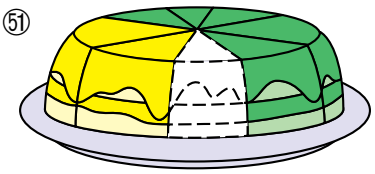
㊾ $\frac{7}{10} \bigcirc \frac{4}{5}$

㊿ $\frac{2}{5} \bigcirc \frac{7}{15}$

Do the addition. Write the answers in simplest form.

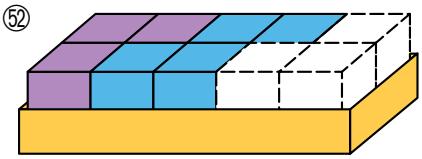


51



$\frac{2}{8} + \frac{5}{8} =$ _____

52



$\frac{3}{10} + \frac{4}{10} =$ _____

53 $\frac{7}{12} + \frac{1}{12} =$ _____

54 $\frac{2}{9} + \frac{5}{9} =$ _____

55 $\frac{3}{16} + \frac{3}{16} =$ _____

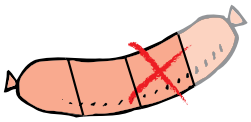
56 $\frac{1}{15} + \frac{8}{15} =$ _____

ISBN: 978-1-927042-14-4

Write the answers in simplest form.

⑰ 

$\frac{5}{10} - \frac{2}{10} =$ _____

⑱ 

$\frac{3}{4} - \frac{1}{4} =$ _____

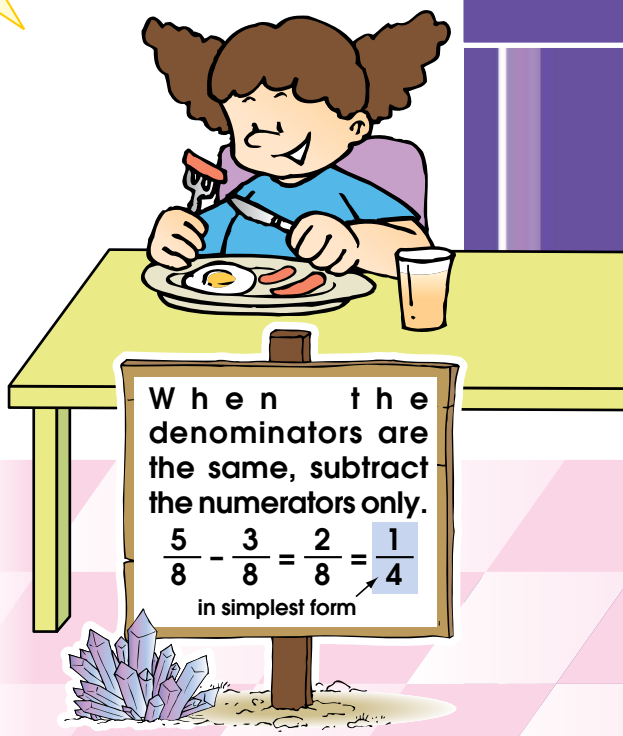
⑲ $\frac{5}{6} - \frac{1}{6} =$ _____

⑳ $\frac{7}{9} - \frac{2}{9} =$ _____

㉑ $\frac{11}{15} - \frac{5}{15} =$ _____

㉒ $\frac{10}{12} - \frac{5}{12} =$ _____

I have $\frac{3}{4}$ of a sausage. After eating $\frac{1}{4}$ of it, I'll have half of a sausage left.



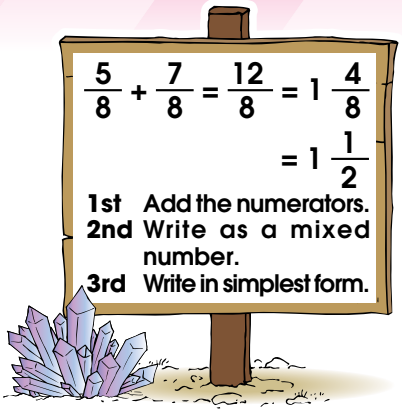
Show your work. Then write the mixed numbers in simplest form.

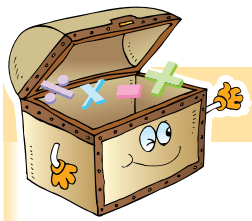
㉓ $\frac{8}{9} + \frac{4}{9} =$ _____ $=$ _____ $=$ _____

㉔ $\frac{5}{6} + \frac{5}{6} =$ _____ $=$ _____ $=$ _____

㉕ $\frac{7}{10} + \frac{9}{10} =$ _____ $=$ _____ $=$ _____

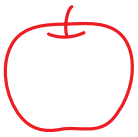
㉖ $\frac{6}{12} + \frac{10}{12} =$ _____ $=$ _____ $=$ _____



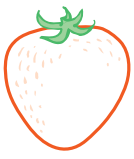


ACTIVITY

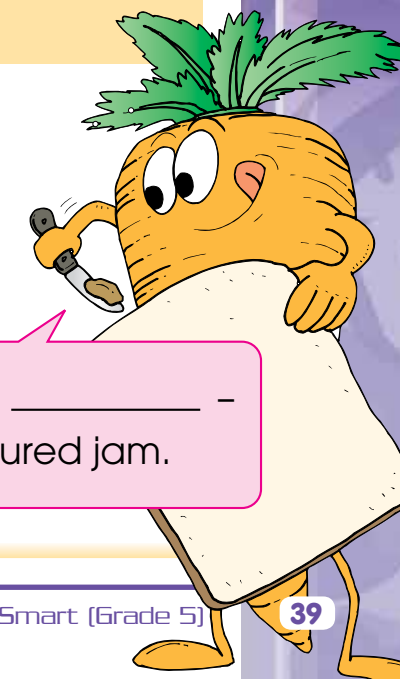
Carrie the Carrot likes the jam with the greatest value. Help him write the answers in simplest form and fill in the blank.

① $\frac{3}{15} + \frac{6}{15} =$ 

② $\frac{14}{15} - \frac{3}{15} =$ 

③ $\frac{4}{15} + \frac{2}{15} =$ 

④ $\frac{13}{15} - \frac{7}{15} =$ 



ISBN: 978-1-927042-14-4