

The Primary Stage of Grades (4-5)

Second Semester 2022 - 2023

Name: Answer Key

Subject: Mathematics

Date: / /

Worksheet(2)

Class: Grade 5 (C,D,E,F&G)

Objectives:

To find equivalent fractions

To write fractions in the simplest form

Question 1: Use these boxes to help you find the equivalent fractions. Shade the boxes below and write the correct equivalent fraction.

* The first one has been done for you

1)

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

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

2)

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

 $\frac{1}{2} = \frac{\boxed{3}}{6}$

3)

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$

 $\frac{2}{3} = \frac{\boxed{4}}{6}$

4)

$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

 $\frac{3}{4} = \frac{\boxed{6}}{8}$

Question 2: Fill in the missing numbers to make the following statements true (show your work).

You can get your answer in different ways:

Divide or Multiply numerator & denominator by the same number.

a) $\frac{2}{5} = \frac{4}{\boxed{10}}$

A diagram showing the fraction $\frac{2}{5}$ on the left and $\frac{4}{\boxed{10}}$ on the right. A red arrow labeled 'x2' points from the numerator 2 to the numerator 4. Another red arrow labeled 'x2' points from the denominator 5 to the denominator 10.

b) $\frac{1}{3} = \frac{\boxed{6}}{18}$

A diagram showing the fraction $\frac{1}{3}$ on the left and $\frac{\boxed{6}}{18}$ on the right. A red arrow labeled 'x6' points from the numerator 1 to the numerator 6. Another red arrow labeled 'x6' points from the denominator 3 to the denominator 18.

c) $\frac{12}{24} = \frac{6}{\boxed{12}}$

A diagram showing the fraction $\frac{12}{24}$ on the left and $\frac{6}{\boxed{12}}$ on the right. A red arrow labeled '÷2' points from the numerator 12 to the numerator 6. Another red arrow labeled '÷2' points from the denominator 24 to the denominator 12.

d) $\frac{14}{35} = \frac{\boxed{2}}{5}$

A diagram showing the fraction $\frac{14}{35}$ on the left and $\frac{\boxed{2}}{5}$ on the right. A red arrow labeled '÷7' points from the numerator 14 to the numerator 2. Another red arrow labeled '÷7' points from the denominator 35 to the denominator 5.

e) $\frac{5}{6} = \frac{20}{\boxed{24}}$

A diagram showing the fraction $\frac{5}{6}$ on the left and $\frac{20}{\boxed{24}}$ on the right. A red arrow labeled 'x4' points from the numerator 5 to the numerator 20. Another red arrow labeled 'x4' points from the denominator 6 to the denominator 24.

f) $\frac{16}{40} = \frac{\boxed{4}}{10}$

A diagram showing the fraction $\frac{16}{40}$ on the left and $\frac{\boxed{4}}{10}$ on the right. A red arrow labeled '÷4' points from the numerator 16 to the numerator 4. Another red arrow labeled '÷4' points from the denominator 40 to the denominator 10.

g) $\frac{6}{12} = \frac{18}{\boxed{36}}$

A diagram showing the fraction $\frac{6}{12}$ on the left and $\frac{18}{\boxed{36}}$ on the right. A red arrow labeled 'x3' points from the numerator 6 to the numerator 18. Another red arrow labeled 'x3' points from the denominator 12 to the denominator 36.

h) $\frac{12}{18} = \frac{\boxed{6}}{9}$

A diagram showing the fraction $\frac{12}{18}$ on the left and $\frac{\boxed{6}}{9}$ on the right. A red arrow labeled '÷2' points from the numerator 12 to the numerator 6. Another red arrow labeled '÷2' points from the denominator 18 to the denominator 9.

You can get your answer By dividing the numerator & the denominator by the common Factor

i) $\frac{30}{60} = \frac{5}{10} = \frac{1}{2}$

Handwritten annotations: $\times 6$ (from 5 to 30), $\div 5$ (from 10 to 5), $\times 6$ (from 1 to 60), $\div 5$ (from 10 to 2).

j) $\frac{12}{24} = \frac{3}{6} = \frac{1}{2}$

Handwritten annotations: $\times 4$ (from 3 to 12), $\div 3$ (from 6 to 3), $\times 4$ (from 1 to 4), $\div 3$ (from 6 to 2).

k) $\frac{36}{48} = \frac{3}{4}$

Handwritten annotations: $\div 12$ (from 48 to 4), $\div 12$ (from 36 to 3).

l) $\frac{15}{81} = \frac{5}{27}$

Handwritten annotations: $\div 3$ (from 81 to 27), $\div 3$ (from 15 to 5).

m) $\frac{8}{125} = \frac{64}{1000}$

Handwritten annotations: $\times 8$ (from 8 to 64), $\div 8$ (from 1000 to 125).

n) $\frac{3}{5} = \frac{60}{100}$

Handwritten annotations: $\times 20$ (from 3 to 60), $\div 20$ (from 100 to 5).

o) $\frac{240}{1000} = \frac{12}{50}$

Handwritten annotations: $\times 20$ (from 12 to 240), $\div 20$ (from 1000 to 50).

p) $\frac{4}{8} = \frac{50}{100}$

Handwritten annotations: $\times 12.5$ (from 4 to 50), $\times 12.5$ (from 8 to 100).

OR $\frac{4}{8} = \frac{1}{2}$
 $\frac{1}{2} = \frac{50}{100}$

Handwritten annotations: $\times 50$ (from 1 to 50), $\times 50$ (from 2 to 100).

q) $\frac{9}{125} = \frac{72}{1000}$

Handwritten annotations: $\times 8$ (from 9 to 72), $\div 8$ (from 1000 to 125).

r) $\frac{15}{25} = \frac{600}{1000}$

Handwritten annotations: $\times 40$ (from 15 to 600), $\times 40$ (from 25 to 1000).

* $8 \times 125 = 1000$
 * $8 \times 12.5 = 100$

3) Write the following fractions in the simplest form.

a) $\frac{36 \div 6}{42 \div 6} = \frac{6}{7}$

b) $\frac{16 \div 8}{56 \div 8} = \frac{2}{7}$

c) $7 \frac{12 \div 12}{36 \div 12} = 7 \frac{1}{3}$

d) $\frac{69 \div 3}{102 \div 3} = \frac{23}{34}$

e) $\frac{27 \div 9}{63 \div 9} = \frac{3}{7}$

f) $8 \frac{25 \div 5}{90 \div 5} = 8 \frac{5}{18}$

4) Here are four number cards

6

12

9

8

Use each card once to make the following statement true.

$$\frac{\boxed{6}}{\boxed{9}} = \frac{\boxed{8}}{\boxed{12}}$$

OR $\frac{6}{8} = \frac{9}{12}$

OR

$$\frac{6 \div 2}{8 \div 2} = \frac{3}{4}$$

$$\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

The same simplest form

$$\frac{6 \div 3}{9 \div 3} = \frac{\boxed{2}}{\boxed{3}}$$

$$\frac{8 \div 4}{12 \div 4} = \frac{\boxed{2}}{\boxed{3}}$$

The same simplest form