Rising 6th grade

6-week summer packet pacing guide:

Week one	Simplifying fractions Improper/mixed number *4 pages*
Week two	Decimal place value Fractions to decimals *4 pages*
Week three	Adding and Subtracting fractions and mixed numbers *5 pages*
Week four	Factoring Multiplying and Dividing fractions and mixed numbers *5 pages*
Week five	Multiplying and dividing Decimal numbers *5 pages*
Week six	Solving using the Order of Operations (PEMDAS) *3 pages*

Name : _____

Sheet 1

Simplifying Proper Fractions

A) Reduce each proper fraction to its lowest terms.

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

2) $\frac{32}{56}$ =

3) $\frac{30}{48}$ =

4) $\frac{9}{81}$ =

5) $\frac{6}{22}$ =

6) $\frac{4}{8}$ =

7) $\frac{5}{35}$ =

8) $\frac{27}{51}$ =

B) 1) Which of the following fractions is the simplest form of $\frac{7}{14}$?

a) $\frac{1}{2}$ b) $\frac{2}{3}$ c) $\frac{5}{6}$ d) $\frac{1}{7}$

2) Which of the following fractions is the simplest form of $\frac{18}{40}$?

a) $\frac{9}{10}$ b) $\frac{6}{20}$ c) $\frac{9}{20}$ d) $\frac{6}{15}$

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Exercises

Name: _____

Date: _____

Simplifying Fractions

1 Simplify this fraction.

$\frac{6}{30}$

2 Simplify this fraction.

$\frac{15}{20}$

3 Simplify this fraction.

$\frac{8}{48}$

4 Simplify this fraction.

$\frac{9}{36}$

5 Simplify this fraction.

$\frac{49}{84}$

6 Simplify this fraction.

$\frac{54}{27}$

7 Simplify this fraction.

$\frac{24}{36}$

8 Simplify this fraction.

$\frac{50}{250}$

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Name : _____

Sheet 1

Simplifying Fractions

Reduce the following to their lowest terms.

1) $\frac{2}{8}$ =

2) $\frac{9}{6}$ =

3) $1\frac{15}{20}$ =

4) $\frac{7}{14}$ =

5) $\frac{40}{25}$ =

6) $15\frac{4}{6}$ =

7) $\frac{8}{28}$ =

8) $\frac{18}{4}$ =

9) $3\frac{6}{16}$ =

10) $\frac{50}{40}$ =

11) $\frac{51}{9}$ =

12) $9\frac{5}{10}$ =

13) $\frac{2}{24}$ =

14) $\frac{60}{42}$ =

Convert improper fractions to mixed numbers

Grade 5 Fractions Worksheet

Convert.

1. $\frac{135}{50}$ = _____
2. $\frac{19}{3}$ = _____
3. $\frac{26}{15}$ = _____
4. $\frac{863}{100}$ = _____
5. $\frac{246}{25}$ = _____
6. $\frac{24}{5}$ = _____
7. $\frac{326}{50}$ = _____
8. $\frac{23}{10}$ = _____
9. $\frac{19}{2}$ = _____

Convert mixed numbers to improper fractions

Grade 4 Fractions Worksheet

Convert.

1. $2\frac{2}{8}$ = _____
2. $1\frac{1}{3}$ = _____
3. $2\frac{4}{5}$ = _____
4. $2\frac{4}{8}$ = _____
5. $2\frac{2}{4}$ = _____
6. $2\frac{3}{5}$ = _____
7. $1\frac{1}{2}$ = _____
8. $3\frac{5}{8}$ = _____
9. $2\frac{3}{6}$ = _____
10. $3\frac{4}{12}$ =
11. $3\frac{2}{10}$ =
12. $2\frac{1}{2}$ =

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Name: _____

Date: _____

Fractions And Decimals

1 What digit is in the tenths place?
What is its value?

25.72

2 What digit is in the hundredths place?
What is its value?

4.238

3 What digit is in the thousandths place?
What is its value?

2.7128

4 What digit is in the tenths place?
What is its value?

1.065

5 Write in standard form:

4 tens
6 ones
1 tenth
7 hundredths

6 Write in standard form:

3 ones
2 tenths
7 hundredths
5 thousandths

7 Write in standard form:

2 hundreds
5 ones
8 thousandths

8 Put the decimal in the correct place to make each number.

thirty-four point eight 3 4 8

three point four eight 3 4 8

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Converting Base-10 Fractions

1 Convert this fraction into a decimal.

$\frac{6}{10} =$ _____

2 Convert this fraction into a decimal.

$\frac{15}{100} =$ _____

3 Convert this fraction into a decimal.

$\frac{42}{1000} =$ _____

4 Convert these fractions into decimals.

$\frac{1}{10}$ _____ $\frac{1}{100}$ _____ $\frac{1}{1000}$ _____

5 Convert this fraction into a decimal.

$\frac{168}{100} =$ _____

6 Convert this decimal into a fraction.

$0.3 =$ ——

7 Convert this decimal into a fraction.

$0.27 =$ ——

8 Convert this decimal into a fraction.

$0.384 =$ ——

9 Convert this decimal into a fraction.

$0.05 =$ ——

10 Convert this decimal into a fraction.

$11.72 =$ ——

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Convert decimals to fractions

Grade 5 Decimals Worksheet

Convert to fractions.

1) 0.7 = _____

2) 0.34 = _____

3) 0.49 = _____

4) 0.5 = _____

5) 0.11 = _____

6) 0.4 = _____

7) 0.47 = _____

8) 0.81 = _____

9) 0.8 = _____

10) 0.78 = _____

11) 0.9 = _____

12) 0.84 = _____

13) 0.66 = _____

14) 0.05 = _____

15) 0.1 = _____

16) 0.93 = _____

17) 0.87 = _____

18) 0.17 = _____

19) 0.53 = _____

20) 0.58 = _____

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Convert fractions to decimals (denominators 10 or 100)

Grade 5 Decimals Worksheet

Convert to decimals.

1) $\frac{9}{10} =$ _____

2) $\frac{74}{100} =$ _____

3) $\frac{57}{100} =$ _____

4) $\frac{8}{10} =$ _____

5) $\frac{42}{100} =$ _____

6) $\frac{49}{100} =$ _____

7) $\frac{6}{10} =$ _____

8) $\frac{3}{100} =$ _____

9) $\frac{95}{100} =$ _____

10) $\frac{4}{10} =$ _____

11) $\frac{13}{100} =$ _____

12) $\frac{2}{10} =$ _____

13) $\frac{24}{100} =$ _____

14) $\frac{63}{100} =$ _____

15) $\frac{48}{100} =$ _____

16) $\frac{7}{10} =$ _____

17) $\frac{39}{100} =$ _____

18) $\frac{46}{100} =$ _____

19) $\frac{38}{100} =$ _____

20) $\frac{1}{10} =$ _____

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Adding and Subtracting Fractions

1 $\frac{1}{7} + \frac{2}{7}$

2 $\frac{2}{5} + \frac{3}{5}$

3 $\frac{5}{18} + \frac{8}{18}$

4 $\frac{8}{9} - \frac{5}{9}$

5 $\frac{12}{8} - \frac{10}{8}$

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

7 $\frac{10}{15} - \frac{9}{15} + \frac{6}{15}$

8 $\frac{18}{30} - \left(\frac{8}{30} - \frac{1}{30}\right)$

9 $\frac{9}{20} - \left(\frac{5}{20} + \frac{1}{20}\right)$

10 $\frac{5}{4} - 1$

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Un-Guided Practice with the LCD Method

LCD 5

Instructions: Add or subtract these 'un-like' fractions using the LCD method you learned in the video. Show your work and you do **not** need to simplify your answers.

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

$\frac{2}{2} \times \frac{2}{3} + \frac{1}{6}$

$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$

2. $\frac{7}{12} - \frac{1}{6}$

3. $\frac{15}{24} + \frac{5}{8}$

4. $\frac{9}{10} - \frac{1}{5}$

5. $\frac{3}{8} + \frac{3}{2}$

6. $\frac{3}{7} + \frac{5}{14}$

7. $\frac{5}{3} - \frac{3}{4}$

8. $\frac{4}{6} - \frac{3}{8}$

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Un-Guided Practice with the LCD Method - Set 2

Instructions: Add or subtract these 'un-like' fractions using the LCD method you learned in the video. Show your work and you do **not** need to simplify your answers.

1. $\frac{1}{2} + \frac{3}{14}$

$\frac{7}{7} \times \frac{1}{2} + \frac{3}{14}$

$\frac{7}{14} + \frac{3}{14} = \frac{10}{14}$

2. $\frac{16}{30} + \frac{1}{10}$

3. $\frac{7}{16} - \frac{1}{4}$

4. $\frac{8}{11} - \frac{5}{22}$

5. $\frac{4}{5} + \frac{2}{3}$

6. $\frac{5}{6} - \frac{4}{30}$

7. $\frac{5}{9} - \frac{10}{27}$

8. $\frac{7}{9} - \frac{5}{12}$

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Adding Mixed Numbers

1 $4 + 3\frac{1}{5}$

2 $1\frac{3}{8} + 11$

3 $1\frac{1}{5} + \frac{3}{5}$

4 $\frac{1}{4} + 4\frac{3}{4}$

5 $6\frac{1}{8} + 3\frac{3}{8}$

6 $4\frac{5}{8} + 1\frac{4}{8}$

7 $2\frac{1}{3} + 3\frac{5}{6}$

8 $4\frac{2}{3}$
$+ \ 5\frac{2}{5}$

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Subtracting Mixed Numbers

1 $5\frac{7}{9} - 4\frac{5}{9}$

2 $7\frac{1}{2} - 4$

3 $5 - 3\frac{1}{4}$

4 $9\frac{1}{4} - 2\frac{3}{4}$

5 $8 - 5\frac{1}{6}$

6 $5\frac{1}{3} - 1\frac{2}{3}$

7 $10\frac{2}{3} - 3\frac{2}{9}$

8 $7\frac{1}{4} - 5\frac{2}{3}$

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Factoring

1 Factor 16 in two different ways.

$16 = ___ \times ___$

$16 = ___ \times ___$

2 Factor 30 in two different ways.

$30 = ___ \times ___$

$30 = ___ \times ___$

3 Factor 40 in three different ways.

$40 = ___ \times ___$

$40 = ___ \times ___$

$40 = ___ \times ___$

4 Is 7 a factor of 52 ?

- ☐ Yes
- ☐ No

5 Is 3 a factor of 42 ?

- ☐ Yes
- ☐ No

6 Is 9 a factor of 153 ?



- ☐ Yes
- ☐ No

7 Find ALL the factors of 16.



factor list: _____

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Multiplying Fractions

1 $\frac{1}{5} \times \frac{2}{3}$

2 $\frac{3}{8} \times \frac{5}{6}$

3 $\frac{4}{10} \times \frac{5}{9}$

4 $\frac{4}{9} \times \frac{5}{2}$

5 $\frac{1}{2} \times \frac{3}{5} \times \frac{2}{5}$

6 $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{3} \times \frac{1}{3}$

7 $\frac{2}{15} \times 4$

8 $\frac{3}{4} \times \frac{4}{3}$

9 What is $\frac{1}{2}$ of $\frac{1}{3}$?

10 What is $\frac{1}{2}$ of $\frac{3}{4}$?

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Multiplying Three or More Fractions

MUL 4

Instructions: Use the procedure you learned in the video to multiply these fractions together. You do **not** need to simplify your answers.

1. $\frac{2}{3} \times \frac{4}{5} \times \frac{1}{3} = \frac{8}{45}$
2. $\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} =$
3. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{2}{3} =$
4. $\frac{3}{4} \times \frac{1}{2} \times \frac{3}{4} \times \frac{1}{2} =$
5. $\frac{2}{5} \times \frac{2}{6} \times \frac{2}{1} =$
6. $\frac{7}{10} \times \frac{5}{10} \times \frac{1}{2} =$
7. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$
8. $\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} =$
9. $\frac{1}{3} \times \frac{3}{4} \times \frac{1}{2} \times \frac{2}{2} \times \frac{5}{1} =$
10. $\frac{3}{4} \cdot \frac{2}{5} \cdot \frac{3}{4} =$
11. $\frac{5}{3} \cdot \frac{2}{3} \cdot \frac{0}{7} =$
12. $\frac{5}{2} \times \frac{2}{7} \times \frac{1}{2} \times \frac{5}{1} =$
13. $\frac{3}{2} \times \frac{1}{2} \times \frac{4}{5} \times \frac{3}{5} =$
14. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} =$

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Dividing Fractions (Guided Practice)

DIV 2

Instructions: Solve these division problems by multiplying by the reciprocal. Use the guides to help you. You do **not** need to simplify your answers.

1. $\frac{3}{4} \div \frac{2}{5}$

   $\frac{3}{4} \times \frac{5}{2} = \frac{15}{8}$

2. $\frac{5}{4} \div \frac{2}{3}$

   $\frac{5}{4} \times __ = __$

3. $\frac{1}{7} \div \frac{1}{4}$

   $\frac{1}{7} \times __ = __$

4. $\frac{8}{13} \div \frac{1}{2}$

   $\frac{8}{13} \times __ = __$

5. $\frac{3}{5} \div \frac{1}{6}$

   $\frac{3}{5} \times __ = __$

6. $\frac{4}{8} \div \frac{5}{1}$

   $\frac{4}{8} \times __ = __$

7. $\frac{5}{8} \div \frac{3}{4}$

   $\frac{5}{8} \times __ = __$

8. $\frac{1}{12} \div \frac{1}{12}$

   $\frac{1}{12} \times __ = __$

9. $\frac{7}{9} \div \frac{2}{3}$

   $\frac{7}{9} \times __ = __$

10. $\frac{1}{8} \div \frac{3}{16}$

    $\frac{1}{8} \times __ = __$

11. $\frac{5}{11} \div \frac{4}{7}$

    $\frac{5}{11} \times __ = __$

12. $\frac{9}{10} \div \frac{5}{6}$

    $\frac{9}{10} \times __ = __$

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Dividing a Fraction by a Whole Number (and Vice-Versa)

DIV 4

Instructions: Solve these division problems. You do **not** need to simplify your answers in this exercise set.

1. $\frac{3}{5} \div 2 = \frac{3}{5} \div \frac{2}{1}$

   $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$

2. $5 \div \frac{3}{8} =$

3. $\frac{1}{4} \div 3 =$

4. $10 \div \frac{9}{2} =$

5. $\frac{6}{7} \div 5 =$

6. $\frac{1}{4} \div 4 =$

7. $9 \div \frac{4}{7} =$

8. $8 \div \frac{3}{4} =$

9. $\frac{5}{12} \div 2 =$

10. $4 \div \frac{1}{10} =$

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Decimal Addition

DA 1

Instructions: Add these decimals using the procedure you learned in the video. Don't forget to line up the decimal points when adding.

1. $5.8 + 12.4$

$$\begin{array}{r} {\scriptstyle 1} \\ 5.8 \\ +\ 12.4 \\ \hline 18.2 \end{array}$$

2. $3.2 + 0.5$

3. $10.9 + 0.12$

4. $245 + 8.9$

5. $17.2 + 25.6$

6. $83.6 + 2.125$

7. $0.412 + 0.65$

8. $33.75 + 9.8$

9. $0.123 + 45.6$

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DA 2

Decimal Subtraction

Instructions: Subtract these decimals using the procedure you learned in the video. Don't forget to line up the decimal points when subtracting and remember that order matters in subtraction.

1. $9.23 - 4.5$

$$\begin{array}{r} {\scriptstyle 8\ \ \ \ \ } \\ 9.{\scriptstyle 1}2\,3 \\ -\ 4.5\,0 \\ \hline 4.7\,3 \end{array}$$

2. $8.0 - 0.6$

3. $12 - 1.3$

4. $8.9 - 5.7$

5. $50.7 - 42.1$

6. $81.3 - 6.75$

7. $129.8 - 85.4$

8. $0.745 - 0.561$

9. $4.925 - 3.8$

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Multiply and Divide by Positive Powers of Ten (A)

Find each product or quotient.

Divide - move Left

Multiply move Right

$6.3 \div 100 = 0.063$

$7.129 \times 100 = 712.9$

$2.97 \div 1{,}000 =$

$0 \times 1{,}000 =$

$0.193 \div 10 =$

$2.3979 \div 1{,}000 =$

$2.3 \times 1{,}000 =$

$1.175 \div 100 =$

$8.4 \times 1{,}000 =$

$9.1 \times 1{,}000 =$

$9.6 \times 1{,}000 =$

$8.425 \times 1{,}000 =$

$8.3 \div 1{,}000 =$

$1.13 \div 100 =$

$5.6629 \div 100 =$

$1.88 \div 1{,}000 =$

$0.1804 \div 1{,}000 =$

$5.2 \div 100 =$

$8.84 \times 10 =$

$9.63 \times 1{,}000 =$

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Name: _____

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Decimal Multiplication

DA 3

Instructions: Multiply these decimals using the procedure you learned in the video. (Remember to pretend that you are working with whole numbers and then shift the decimal in your answer.)

1. 3.2×5.26

$$\begin{array}{r} {\scriptstyle 1\ \ 1} \\ 5.26 \\ \times\ 3.2 \\ \hline 1052 \\ +\ 15780 \\ \hline 16.832 \end{array}$$

2. 4.5×2.4

3. 0.25×0.11

4. 62×1.8

5. 316×2.8

6. 0.125×65

7. 9.23×3.1

8. 0.34×0.216

9. 70.4×3.4

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Dividing Decimals by Whole Numbers (A)

Find each quotient.

$6\overline{)1.290}$ = 0.215

$6\overline{)9.51}$

$5\overline{)1.26}$

$6\overline{)7.79}$

$2\overline{)9.70}$

$5\overline{)3.76}$

$4\overline{)7.77}$

$2\overline{)2.12}$

$9\overline{)7.66}$

$8\overline{)5.09}$

$8\overline{)1.81}$

$2\overline{)3.70}$

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Name: _____

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Order of Operations: From Left To Right

OPS 2

Instructions: Use the Left To Right Rule to simplify each expression. Write your answer in the space provided and be sure to show your work.

1. $6 - 4 + 8 =$ 10

   2 + 8

   10

2. $30 \div 3 \div 5 =$ ____

3. $20 \div 5 \times 4 =$ ____

4. $38 - 9 - 4 =$ ____

5. $12 - 5 + 3 =$ ____

6. $8 + 7 - 2 =$ ____

7. $24 \div 3 \div 2 \times 5 =$ ____

8. $32 \div 4 \div 2 \times 4 =$ ____

9. $4 \times 6 \div 2 \times 5 =$ ____

10. $14 \div 2 \times 3 \div 3 =$ ____

11. $35 - 5 - 10 + 3 =$ ____

12. $43 - 5 + 6 - 10 =$ ____

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Multiply and Divide Before You Add and Subtract

OPS 1

Instructions: Use the Order of Operations Rules to simplify each expression. Write your answer in the space provided and be sure to show your work.

Examples

$5 + 2 \times 3 = 11$

$5 + 6$

11

Multiply First

$15 \div 5 - 1 = 2$

$3 - 1$

2

Divide First

1. $6 + 4 \times 2 =$ ____

2. $10 \times 4 - 5 =$ ____

3. $10 - 6 \div 3 =$ ____

4. $20 - 5 \times 4 =$ ____

5. $3 \times 7 + 4 =$ ____

6. $3 + 24 \div 8 =$ ____

7. $8 + 4 \times 3 =$ ____

8. $1 + 6 \times 5 =$ ____

9. $12 \div 6 + 7 =$ ____

10. $50 - 10 \div 2 =$ ____

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Exercises

Name: _____

Date: _____

Order of Operations

1 Simplify this expression:

$2 + 7 \times 3$

2 Simplify this expression:

$10 - 2 \times 3 + 5$

3 Simplify this expression:

$15 \div 3 \times 4 \div 2$

4 Simplify this expression:

$25 - 10 + 3 - 8$

5 Simplify this expression:

$3 \times (21 \div 7)$

6 Simplify this expression:

$(6 \times 2) + 8 - (40 - 4 \times 5)$

7 Simplify this expression:

$[2 \times (14 \div 7)] - 3$

8 Simplify this expression:

$2^3 + 9 - 4^2$

9 Simplify this expression:

$36 - 1 \times 4^2 + 5$

10 Simplify this expression:

$(40 - 15) + 3^3$

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