4MA1 Operations with Fractions

"Show That" Practice Worksheet

DIVIDING MIXED NUMBERS

I DO

Show that $2\frac{1}{4} \div 1\frac{1}{5} = 1\frac{7}{8}$

WE DO

Show that $3\frac{1}{3} \div 1\frac{1}{4} = 2\frac{2}{3}$

YOU DO 1

Show that $1\frac{3}{5} \div 2\frac{2}{3} = \frac{3}{5}$

YOU DO 2

Show that $4\frac{1}{2} \div 1\frac{1}{5} = 3\frac{3}{4}$

YOU DO 3

Show that $2\frac{3}{4} \div 1\frac{5}{6} = 1\frac{1}{2}$

YOU DO 4

Show that $5\frac{1}{3} \div 2\frac{2}{9} = 2\frac{2}{5}$

YOU DO 5

Show that $3\frac{3}{8} \div 1\frac{1}{2} = 2\frac{1}{4}$

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4MA1 Operations with Fractions

"Show That" Practice Worksheet

MULTIPLYING MIXED NUMBERS

I DO

Show that $1\frac{1}{2} \times 2\frac{1}{3} = 3\frac{1}{2}$

WE DO

Show that $2\frac{1}{4} \times 1\frac{1}{3} = 3$

YOU DO 1

Show that $1\frac{2}{5} \times 3\frac{1}{2} = 4\frac{9}{10}$

YOU DO 2

Show that $2\frac{2}{3} \times 1\frac{1}{5} = 3\frac{1}{5}$

YOU DO 3

Show that $1\frac{3}{4} \times 2\frac{2}{5} = 4\frac{1}{5}$

YOU DO 4

Show that $3\frac{1}{3} \times 1\frac{1}{8} = 3\frac{3}{4}$

YOU DO 5

Show that $2\frac{3}{4} \times 1\frac{1}{11} = 3$

4MA1 Operations with Fractions

"Show That" Practice Worksheet

ADDING MIXED NUMBERS

I DO

Show that $1\frac{3}{4} + 2\frac{1}{3} = 4\frac{1}{12}$

WE DO

Show that $2\frac{2}{5} + 1\frac{1}{2} = 3\frac{9}{10}$

YOU DO 1

Show that $3\frac{1}{4} + 1\frac{5}{6} = 5\frac{1}{12}$

YOU DO 2

Show that $1\frac{5}{8} + 2\frac{3}{4} = 4\frac{3}{8}$

YOU DO 3

Show that $2\frac{4}{5} + 1\frac{2}{3} = 4\frac{7}{15}$

YOU DO 4

Show that $4\frac{1}{6} + 2\frac{7}{9} = 6\frac{17}{18}$

YOU DO 5

Show that $3\frac{5}{7} + 1\frac{1}{2} = 5\frac{3}{14}$

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4MA1 Operations with Fractions

"Show That" Practice Worksheet

SUBTRACTING MIXED NUMBERS

I DO

Show that $3\frac{1}{4} - 1\frac{2}{3} = 1\frac{7}{12}$

WE DO

Show that $4\frac{1}{5} - 2\frac{1}{2} = 1\frac{7}{10}$

YOU DO 1

Show that $5\frac{1}{3} - 2\frac{3}{4} = 2\frac{7}{12}$

YOU DO 2

Show that $3\frac{3}{8} - 1\frac{5}{6} = 1\frac{13}{24}$

YOU DO 3

Show that $6\frac{1}{5} - 3\frac{2}{3} = 2\frac{8}{15}$

YOU DO 4

Show that $4\frac{2}{7} - 1\frac{1}{2} = 2\frac{11}{14}$

YOU DO 5

Show that $5\frac{1}{6} - 2\frac{4}{9} = 2\frac{13}{18}$

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ANSWERS & WORKED SOLUTIONS

DIVIDING MIXED NUMBERS - ANSWERS

I DO

Convert: 9/4 ÷ 6/5.
Multiply by reciprocal: 9/4 × 5/6 = 45/24.
Simplify: 15/8 = 1 7/8.

WE DO

Convert: 10/3 ÷ 5/4.
Multiply: 10/3 × 4/5 = 40/15.
Simplify: 8/3 = 2 2/3.

YOU DO 1

Convert: 8/5 ÷ 8/3.
Multiply: 8/5 × 3/8 = 24/40.
Simplify: 3/5.

YOU DO 2

Convert: 9/2 ÷ 6/5.
Multiply: 9/2 × 5/6 = 45/12.
Simplify: 15/4 = 3 3/4.

YOU DO 3

Convert: 11/4 ÷ 11/6.
Multiply: 11/4 × 6/11 = 66/44.
Simplify: 3/2 = 1 1/2.

YOU DO 4

Convert: 16/3 ÷ 20/9.
Multiply: 16/3 × 9/20 = 144/60.
Simplify: 12/5 = 2 2/5.

YOU DO 5

Convert: 27/8 ÷ 3/2.
Multiply: 27/8 × 2/3 = 54/24.
Simplify: 9/4 = 2 1/4.

MULTIPLYING MIXED NUMBERS - ANSWERS

I DO

Convert: 3/2 × 7/3.
Multiply: 21/6.
Simplify: 7/2 = 3 1/2.

WE DO

Convert: 9/4 × 4/3.
Multiply: 36/12.
Simplify: 3.

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YOU DO 1

Convert: 7/5 × 7/2.
Multiply: 49/10.
Simplify: 4 9/10.

YOU DO 2

Convert: 8/3 × 6/5.
Multiply: 48/15.
Simplify: 16/5 = 3 1/5.

YOU DO 3

Convert: 7/4 × 12/5.
Multiply: 84/20.
Simplify: 21/5 = 4 1/5.

YOU DO 4

Convert: 10/3 × 9/8.
Multiply: 90/24.
Simplify: 15/4 = 3 3/4.

YOU DO 5

Convert: 11/4 × 12/11.
Multiply: 132/44.
Simplify: 3.

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ANSWERS & WORKED SOLUTIONS (CONT.)

ADDING MIXED NUMBERS - ANSWERS

I DO

Convert: 1 9/12 + 2 4/12.
Add: 3 and 13/12.
Simplify: 4 1/12.

WE DO

Convert: 2 4/10 + 1 5/10.
Add: 3 and 9/10.
Simplify: 3 9/10.

YOU DO 1

Convert: 3 3/12 + 1 10/12.
Add: 4 and 13/12.
Simplify: 5 1/12.

YOU DO 2

Convert: 1 5/8 + 2 6/8.
Add: 3 and 11/8.
Simplify: 4 3/8.

YOU DO 3

Convert: 2 12/15 + 1 10/15.
Add: 3 and 22/15.
Simplify: 4 7/15.

YOU DO 4

Convert: 4 3/18 + 2 14/18.
Add: 6 and 17/18.
Simplify: 6 17/18.

YOU DO 5

Convert: 3 10/14 + 1 7/14.
Add: 4 and 17/14.
Simplify: 5 3/14.

SUBTRACTING MIXED NUMBERS - ANSWERS

I DO

Convert: 3 3/12 - 1 8/12.
Borrow: 2 15/12 - 1 8/12.
Subtract: 1 7/12.

WE DO

Convert: 4 2/10 - 2 5/10.
Borrow: 3 12/10 - 2 5/10.
Subtract: 1 7/10.

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YOU DO 1

Convert: 5 4/12 - 2 9/12.

Borrow: 4 16/12 - 2 9/12.

Subtract: 2 7/12.

YOU DO 2

Convert: 3 9/24 - 1 20/24.

Borrow: 2 33/24 - 1 20/24.

Subtract: 1 13/24.

YOU DO 3

Convert: 6 3/15 - 3 10/15.

Borrow: 5 18/15 - 3 10/15.

Subtract: 2 8/15.

YOU DO 4

Convert: 4 4/14 - 1 7/14.

Borrow: 3 18/14 - 1 7/14.

Subtract: 2 11/14.

YOU DO 5

Convert: 5 3/18 - 2 8/18.

Borrow: 4 21/18 - 2 8/18.

Subtract: 2 13/18.

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