

Fractions

Simplify each. Write your answer as a mixed number when possible.

1) $\frac{18}{24}$

2) $\frac{126}{144}$

3) $\frac{6}{12}$

4) $\frac{24}{30}$

5) $5\frac{12}{16}$

6) $8\frac{27}{45}$

$$7) 6\frac{6}{36}$$

$$8) 8\frac{6}{36}$$

$$9) \frac{42}{30}$$

$$10) \frac{48}{42}$$

$$11) \frac{16}{12}$$

$$12) \frac{20}{8}$$

Evaluate each expression.

$$13) \left(-\frac{1}{2}\right) - 1\frac{1}{2}$$

$$14) \left(-2\frac{4}{7}\right) + 4\frac{6}{7}$$

$$15) \frac{5}{6} - \left(-3\frac{1}{6}\right)$$

$$16) \left(-5\frac{1}{5}\right) - \frac{6}{5}$$

$$17) 2 - \frac{1}{6}$$

$$18) 7 - 2\frac{3}{5}$$

$$19) 4\frac{3}{4} - 4\frac{3}{4}$$

$$20) \left(-1\frac{4}{7}\right) - 4\frac{5}{6}$$

$$21) \left(-2\frac{1}{3}\right) + \frac{3}{5}$$

$$22) 2\frac{1}{6} - 1\frac{4}{5}$$

$$23) 4\frac{6}{7} - 3\frac{1}{2}$$

$$24) 4\frac{1}{4} - \left(-2\frac{1}{2}\right)$$

Find each product.

$$25) 1\frac{2}{5} \times -1\frac{5}{9}$$

$$26) -3\frac{9}{10} \times 4\frac{3}{5}$$

$$27) \frac{1}{7} \times -\frac{15}{8}$$

$$28) 3\frac{7}{10} \times -3\frac{3}{5}$$

$$29) -2\frac{4}{9} \times \frac{1}{4}$$

$$30) -\frac{1}{4} \times \frac{14}{9}$$

$$31) 3\frac{3}{7} \times -2\frac{4}{9}$$

$$32) -3\frac{4}{9} \times -3\frac{1}{8}$$

$$33) -2 \times \frac{1}{2}$$

$$34) -1\frac{1}{2} \times 1\frac{7}{10}$$

$$35) -2\frac{2}{5} \times -2\frac{1}{5}$$

$$36) -3\frac{4}{7} \times 3\frac{5}{9}$$

Find each quotient.

$$37) 4 \div 9\frac{5}{8}$$

$$38) -2 \div 4\frac{1}{3}$$

$$39) \frac{1}{7} \div 2\frac{1}{3}$$

$$40) 5\frac{7}{10} \div \frac{7}{10}$$

$$41) -2\frac{2}{3} \div 6$$

$$42) 4\frac{3}{7} \div -1\frac{4}{9}$$

$$43) 4\frac{9}{10} \div -3\frac{6}{7}$$

$$44) -2\frac{1}{10} \div -2\frac{1}{8}$$

$$45) \frac{7}{10} \div 5\frac{3}{10}$$

$$46) -3\frac{1}{6} \div -10\frac{7}{10}$$

$$47) -1 \div -1\frac{2}{9}$$

$$48) -1\frac{2}{9} \div 3\frac{1}{10}$$

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Date _____

Simplify each. Write your answer as a mixed number when possible.

1) $\frac{18}{24}$

$\frac{3}{4}$

2) $\frac{126}{144}$

$\frac{7}{8}$

3) $\frac{6}{12}$

$\frac{1}{2}$

4) $\frac{24}{30}$

$\frac{4}{5}$

5) $5\frac{12}{16}$

$5\frac{3}{4}$

6) $8\frac{27}{45}$

$8\frac{3}{5}$

$$7) 6\frac{6}{36}$$

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

$$8) 8\frac{6}{36}$$

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

$$9) \frac{42}{30}$$

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

$$10) \frac{48}{42}$$

$$1\frac{1}{7}$$

$$11) \frac{16}{12}$$

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

$$12) \frac{20}{8}$$

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

Evaluate each expression.

$$13) \left(-\frac{1}{2}\right) - 1\frac{1}{2}$$

-2

$$14) \left(-2\frac{4}{7}\right) + 4\frac{6}{7}$$

$2\frac{2}{7}$

$$15) \frac{5}{6} - \left(-3\frac{1}{6}\right)$$

4

$$16) \left(-5\frac{1}{5}\right) - \frac{6}{5}$$

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

$$17) 2 - \frac{1}{6}$$

$1\frac{5}{6}$

$$18) 7 - 2\frac{3}{5}$$

$4\frac{2}{5}$

$$19) 4\frac{3}{4} - 4\frac{3}{4}$$

0

$$20) \left(-1\frac{4}{7}\right) - 4\frac{5}{6}$$

$-6\frac{17}{42}$

$$21) \left(-2\frac{1}{3}\right) + \frac{3}{5}$$
$$-1\frac{11}{15}$$

$$22) 2\frac{1}{6} - 1\frac{4}{5}$$
$$\frac{11}{30}$$

$$23) 4\frac{6}{7} - 3\frac{1}{2}$$
$$1\frac{5}{14}$$

$$24) 4\frac{1}{4} - \left(-2\frac{1}{2}\right)$$
$$6\frac{3}{4}$$

Find each product.

$$25) 1\frac{2}{5} \times -1\frac{5}{9}$$
$$-2\frac{8}{45}$$

$$26) -3\frac{9}{10} \times 4\frac{3}{5}$$
$$-17\frac{47}{50}$$

$$27) \frac{1}{7} \times -\frac{15}{8}$$
$$-\frac{15}{56}$$

$$28) 3\frac{7}{10} \times -3\frac{3}{5}$$
$$-13\frac{8}{25}$$

$$29) -2\frac{4}{9} \times \frac{1}{4}$$

$$-\frac{11}{18}$$

$$30) -\frac{1}{4} \times \frac{14}{9}$$

$$-\frac{7}{18}$$

$$31) 3\frac{3}{7} \times -2\frac{4}{9}$$

$$-8\frac{8}{21}$$

$$32) -3\frac{4}{9} \times -3\frac{1}{8}$$

$$10\frac{55}{72}$$

$$33) -2 \times \frac{1}{2}$$

$$-1$$

$$34) -1\frac{1}{2} \times 1\frac{7}{10}$$

$$-2\frac{11}{20}$$

$$35) -2\frac{2}{5} \times -2\frac{1}{5}$$

$$5\frac{7}{25}$$

$$36) -3\frac{4}{7} \times 3\frac{5}{9}$$

$$-12\frac{44}{63}$$

Find each quotient.

$$37) 4 \div 9\frac{5}{8}$$

$$\frac{32}{77}$$

$$38) -2 \div 4\frac{1}{3}$$

$$-\frac{6}{13}$$

$$39) \frac{1}{7} \div 2\frac{1}{3}$$

$$\frac{3}{49}$$

$$40) 5\frac{7}{10} \div \frac{7}{10}$$

$$8\frac{1}{7}$$

$$41) -2\frac{2}{3} \div 6$$

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

$$42) 4\frac{3}{7} \div -1\frac{4}{9}$$

$$-3\frac{6}{91}$$

$$43) 4\frac{9}{10} \div -3\frac{6}{7}$$

$$-1\frac{73}{270}$$

$$44) -2\frac{1}{10} \div -2\frac{1}{8}$$

$$\frac{84}{85}$$

$$45) \frac{7}{10} \div 5\frac{3}{10}$$

$$\frac{7}{53}$$

$$46) -3\frac{1}{6} \div -10\frac{7}{10}$$

$$\frac{95}{321}$$

$$47) -1 \div -1\frac{2}{9}$$

$$\frac{9}{11}$$

$$48) -1\frac{2}{9} \div 3\frac{1}{10}$$

$$-\frac{110}{279}$$