Compare Stage 1

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Compare Stage 1

$5 + 0$

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$0 + 3$

Compare Stage 1

$10 + 0$

Compare Stage 1

$0 + 9$

Compare Stage 1

$1 + 1$

Compare Stage 1

$1 + 2$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$2 + 1$

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$1 + 3$

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$3 + 1$

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$1 + 4$

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$4 + 1$

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$1 + 5$

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$5 + 1$

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Compare Stage 1

$6 + 1$

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$1 + 7$

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$7 + 1$

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$1 + 8$

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$8 + 1$

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$1 + 9$

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$9 + 1$

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$2 + 2$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$$2 + 3$$

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$$3 + 2$$

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$$2 + 4$$

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$$4 + 2$$

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$$0 + 0$$

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$$0 + 1$$

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$$2 + 5$$

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$$5 + 2$$

CC BY NC 2024 Illustrative Mathematics®

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$2 + 6$

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$6 + 2$

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$2 + 7$

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$8 + 2$

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$3 + 3$

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$3 + 4$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$4 + 3$

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$3 + 5$

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$5 + 3$

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$6 + 3$

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$3 + 7$

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$7 + 3$

Compare Stage 1

$4 + 4$

CC BY NC 2024 Illustrative Mathematics®

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$$4 + 5$$

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$$5 + 4$$

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$$4 + 6$$

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$$6 + 4$$

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$$3 + 0$$

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Compare Stage 1

$0 + 4$

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$0 + 5$

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$4 + 0$

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$7 + 0$

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$0 + 8$

Compare Stage 1

$8 + 0$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1 $9 + 0$	Compare Stage 1 $0 + 10$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$$8 - 6$$

Compare Stage 1

$$8 - 5$$

Compare Stage 1

$$8 - 4$$

Compare Stage 1

$$8 - 3$$

Compare Stage 1

$$8 - 2$$

Compare Stage 1

$$8 - 1$$

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CC BY NC 2024 Illustrative Mathematics®

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$9 - 9$

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$9 - 8$

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CC BY NC 2024 Illustrative Mathematics®

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CC BY NC 2024 Illustrative Mathematics®

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$6 - 6$

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$4 - 1$

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CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$$10 - 7$$

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$$10 - 1$$

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$$10 - 6$$

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$$10 - 3$$

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$$10 - 5$$

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$$10 - 2$$

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$$10 - 4$$

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$$10 - 0$$

CC BY NC 2024 Illustrative Mathematics®

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$9 - 0$

Compare Stage 1

$8 - 0$

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$7 - 0$

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$6 - 0$

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$5 - 0$

Compare Stage 1

$4 - 0$

Compare Stage 1

$3 - 0$

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$2 - 0$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$$1 - 0$$

Compare Stage 1

$$0 - 0$$

Compare Stage 2

$1 + 10$
$10 + 1$

Compare Stage 2

$2 + 9$
$9 + 2$

Compare Stage 2

$3 + 8$
$8 + 3$

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$4 + 7$
$7 + 4$

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$2 + 10$
$10 + 2$

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$9 + 3$

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$4 + 8$
$8 + 4$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$5 + 7$
$7 + 5$

Compare Stage 2

$6 + 6$

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$3 + 10$
$10 + 3$

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$4 + 9$
$9 + 4$

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$7 + 6$

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$4 + 10$
$10 + 4$

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$5 + 9$
$9 + 5$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$6 + 8$
$8 + 6$

Compare Stage 2

$7 + 7$

Compare Stage 2

$5+10$
$10 + 5$

Compare Stage 2

$6 + 9$
$9 + 6$

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$7 + 8$
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$6 + 10$
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$7 + 9$
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$8 + 8$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$8 + 9$$
$$9 + 8$$

Compare Stage 2

$$9 + 9$$

Compare Stage 2

$$9 + 10$$
$$10 + 9$$

Compare Stage 2

$$10 + 10$$

Compare Stage 2

$$7 + 10$$
$$10 + 7$$

Compare Stage 2

$$8 + 10$$
$$10 + 8$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$20 - 4$$

Compare Stage 2

$$20 - 13$$

Compare Stage 2

$$20 - 18$$

Compare Stage 2

$$20 - 12$$

Compare Stage 2

$$20 - 15$$

Compare Stage 2

$$20 - 9$$

Compare Stage 2

$$19 - 7$$

Compare Stage 2

$$19 - 11$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$19 - 16$$

Compare Stage 2

$$19 - 3$$

Compare Stage 2

$$18 - 13$$

Compare Stage 2

$$18 - 9$$

Compare Stage 2

$$18 - 6$$

Compare Stage 2

$$18 - 10$$

Compare Stage 2

$$17 - 2$$

Compare Stage 2

$$17 - 8$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$17 - 14$$

Compare Stage 2

$$17 - 9$$

Compare Stage 2

$$16 - 12$$

Compare Stage 2

$$16 - 3$$

Compare Stage 2

$$16 - 7$$

Compare Stage 2

$$16 - 8$$

Compare Stage 2

$$15 - 11$$

Compare Stage 2

$$15 - 7$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$15 - 6$$

Compare Stage 2

$$15 - 3$$

Compare Stage 2

$$14 - 2$$

Compare Stage 2

$$14 - 6$$

Compare Stage 2

$$14 - 8$$

Compare Stage 2

$$14 - 9$$

Compare Stage 2

$$13 - 4$$

Compare Stage 2

$$13 - 11$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

$$13 - 8$$

Compare Stage 2

$$13 - 7$$

Compare Stage 2

$$12 - 9$$

Compare Stage 2

$$12 - 3$$

Compare Stage 2

$$12 - 6$$

Compare Stage 2

$$12 - 8$$

Compare Stage 2

$$11 - 8$$

Compare Stage 2

$$11 - 9$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2 $11 - 4$	Compare Stage 2 $11 - 2$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 3

11×8

Compare Stage 3

12×7

Compare Stage 3

13×7

Compare Stage 3

14×6

Compare Stage 3

15×6

Compare Stage 3

10×9

Compare Stage 3

21×4

Compare Stage 3

19×5

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 3

18×5

Compare Stage 3

17×4

Compare Stage 3

16×6

Compare Stage 3

14×7

Compare Stage 3

31×3

Compare Stage 3

20×4

Compare Stage 3

8×9

Compare Stage 3

9×7

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 3

$$12 \times 5$$

Compare Stage 3

$$13 \times 4$$

Compare Stage 3

$$15 \times 3$$

Compare Stage 3

$$9 \times 5$$

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Directions:

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- If the values are the same, each partner turns over 1 more card. The partner with the greater value keeps all 4 cards.
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Compare Stages 4 and 5 One-Digit Divisors

$78 \div 6$

Compare Stages 4 and 5 One-Digit Divisors

$84 \div 7$

Compare Stages 4 and 5 One-Digit Divisors

$68 \div 4$

Compare Stages 4 and 5 One-Digit Divisors

$65 \div 5$

Compare Stages 4 and 5 One-Digit Divisors

$90 \div 6$

Compare Stages 4 and 5 One-Digit Divisors

$42 \div 7$

Compare Stages 4 and 5 One-Digit Divisors

$56 \div 8$

Compare Stages 4 and 5 One-Digit Divisors

$72 \div 9$

CC BY NC 2024 Illustrative Mathematics®

Compare Stages 4 and 5 One-Digit Divisors

$$64 \div 8$$

Compare Stages 4 and 5 One-Digit Divisors

$$81 \div 9$$

Compare Stages 4 and 5 One-Digit Divisors

$$72 \div 3$$

Compare Stages 4 and 5 One-Digit Divisors

$$92 \div 4$$

Compare Stages 4 and 5 One-Digit Divisors

$$69 \div 3$$

Compare Stages 4 and 5 One-Digit Divisors

$$84 \div 4$$

Compare Stages 4 and 5 One-Digit Divisors

$$63 \div 3$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 5 Two-Digit Divisors

$$45 \div 15$$

Compare Stage 5 Two-Digit Divisors

$$57 \div 19$$

Compare Stage 5 Two-Digit Divisors

$$72 \div 18$$

Compare Stage 5 Two-Digit Divisors

$$52 \div 13$$

Compare Stage 5 Two-Digit Divisors

$$84 \div 12$$

Compare Stage 5 Two-Digit Divisors

$$364 \div 14$$

Compare Stage 5 Two-Digit Divisors

$$448 \div 16$$

Compare Stage 5 Two-Digit Divisors

$$529 \div 23$$

CC BY NC 2024 Illustrative Mathematics®

Directions:

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CC BY NC 2024 Illustrative Mathematics®

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$78 \div 6$

Compare Stages 4 and 5 One-Digit Divisors

$84 \div 7$

Compare Stages 4 and 5 One-Digit Divisors

$68 \div 4$

Compare Stages 4 and 5 One-Digit Divisors

$65 \div 5$

Compare Stages 4 and 5 One-Digit Divisors

$90 \div 6$

Compare Stages 4 and 5 One-Digit Divisors

$42 \div 7$

Compare Stages 4 and 5 One-Digit Divisors

$56 \div 8$

Compare Stages 4 and 5 One-Digit Divisors

$72 \div 9$

CC BY NC 2024 Illustrative Mathematics®

Compare Stages 4 and 5 One-Digit Divisors

$$64 \div 8$$

Compare Stages 4 and 5 One-Digit Divisors

$$81 \div 9$$

Compare Stages 4 and 5 One-Digit Divisors

$$72 \div 3$$

Compare Stages 4 and 5 One-Digit Divisors

$$92 \div 4$$

Compare Stages 4 and 5 One-Digit Divisors

$$69 \div 3$$

Compare Stages 4 and 5 One-Digit Divisors

$$84 \div 4$$

Compare Stages 4 and 5 One-Digit Divisors

$$63 \div 3$$

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Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{3}{4}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{4}{4}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{5}{4}$$

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{2}{6}$$

Fraction Cards with Denominators 2, 3, 4, and 6

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

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{4}{6}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{5}{6}$$

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{7}{6}$$

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{2}{3}$$

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

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

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{16}{6}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{6}{2}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{8}{2}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{5}{3}$$

Fraction Cards with Denominators 2, 3, 4, and 6

$$\frac{13}{4}$$

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Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{1}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{2}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{3}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{4}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{5}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{6}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{7}{8}$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$\frac{8}{8}$

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Fraction Cards with Denominators 5, 8, 10, 12, and 100

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

Fraction Cards with Denominators 5, 8, 10, 12, and 100

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

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{3}{5}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{4}{5}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{5}{5}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{6}{5}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{1}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{2}{10}$$

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{3}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{4}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{5}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{6}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{7}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{8}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{9}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{10}{10}$$

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{11}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{19}{10}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{1}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{3}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{4}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{7}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{9}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{10}{12}$$

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{13}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{15}{12}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{1}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{5}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{10}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{20}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{49}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{50}{100}$$

CC BY NC 2024 Illustrative Mathematics®

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{51}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{75}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{99}{100}$$

Fraction Cards with Denominators 5, 8, 10, 12, and 100

$$\frac{200}{100}$$

CC BY NC 2024 Illustrative Mathematics®

Directions:

- Split the deck. Place the cards facedown in 2 stacks.
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Record any sets of cards that are challenging to compare.

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 7

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

Compare Stage 7

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

Compare Stage 7

$$\frac{2}{5} + \frac{4}{10}$$

Compare Stage 7

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

Compare Stage 7

$$\frac{4}{6} + \frac{4}{12}$$

Compare Stage 7

$$\frac{5}{8} - \frac{1}{2}$$

Compare Stage 7

$$\frac{7}{10} + \frac{35}{100}$$

Compare Stage 7

$$\frac{8}{10} - \frac{64}{100}$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 7

$$\frac{8}{10} + \frac{26}{100}$$

Compare Stage 7

$$\frac{7}{10} - \frac{59}{100}$$

Compare Stage 7

$$\frac{5}{10} + \frac{43}{100}$$

Compare Stage 7

$$\frac{9}{10} - \frac{72}{100}$$

Compare Stage 7

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

Compare Stage 7

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

Compare Stage 7

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

Compare Stage 7

$$4\frac{3}{5} - 2\frac{4}{5}$$

CC BY NC 2024 Illustrative Mathematics®

Compare Stage 7

$$5\frac{2}{12} - \frac{7}{12}$$

Compare Stage 7

$$2 + \frac{3}{6} + \frac{4}{6}$$

Compare Stage 7

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

Compare Stage 7

$$5\frac{2}{7} + \frac{4}{7} + \frac{3}{7}$$

Compare Stage 7

$$1 - \frac{3}{12} - \frac{5}{12}$$

Compare Stage 7

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

Compare Stage 7

$$\frac{9}{10} + \frac{4}{10} + \frac{5}{10}$$

Compare Stage 7

$$8 + \frac{6}{9}$$

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Compare Stage 7

$$\frac{3}{4} + \frac{6}{4} + 1$$

Compare Stage 7

$$1 - \frac{2}{9} - \frac{6}{9}$$

Compare Stage 7

$$1\frac{3}{8} - \frac{6}{8}$$

Compare Stage 7

$$6\frac{5}{8} - 2\frac{7}{8}$$

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Compare Stage 8

$$23{,}446 + 12{,}802$$

Compare Stage 8

$$43{,}921 + 102{,}392$$

Compare Stage 8

$$27{,}301 + 821{,}821$$

Compare Stage 8

$$91{,}234 + 89{,}001$$

Compare Stage 8

$$912{,}245 + 81{,}928$$

Compare Stage 8

$$82{,}391 + 28{,}319$$

Compare Stage 8

$$27{,}392 - 16{,}121$$

Compare Stage 8

$$86{,}954 - 42{,}321$$

Compare Stage 8

$$30{,}204 - 8{,}659$$

Compare Stage 8

$$100{,}000 - 72{,}734$$

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Compare Stage 8

$182{,}492 - 18{,}652$

Compare Stage 8

$109{,}203 - 73{,}928$

Compare Stage 8

$8{,}354 \times 5$

Compare Stage 8

$5{,}294 \times 8$

Compare Stage 8

$9{,}263 \times 4$

Compare Stage 8

$4{,}826 \times 9$

Compare Stage 8

$7{,}934 \times 6$

Compare Stage 8

$6{,}839 \times 7$

Compare Stage 8

36×24

Compare Stage 8

28×42

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Compare Stage 8

54×25

Compare Stage 8

68×29

Compare Stage 8

74×56

Compare Stage 8

47×32

Compare Stage 8

$2{,}287 \div 3$

Compare Stage 8

$1{,}244 \div 4$

Compare Stage 8

$5{,}286 \div 6$

Compare Stage 8

$2{,}534 \div 5$

Compare Stage 8

$6{,}972 \div 3$

Compare Stage 8

$8{,}728 \div 4$

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Compare Stage 9

$$\frac{1}{3} \div 9$$

Compare Stage 9

$$3 \times 12 \div 2$$

Compare Stage 9

$$2 \times \frac{1}{3} \times 9$$

Compare Stage 9

$$\frac{2}{4} \times 12$$

Compare Stage 9

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

Compare Stage 9

$$\frac{3}{4} \times 2 \times 6$$

Compare Stage 9

$$\left(\frac{2}{3} \times 11\right) + 12$$

Compare Stage 9

$$\frac{3}{2} \times 12$$

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Compare Stage 9

$$4 \times \frac{1}{2} \times 12$$

Compare Stage 9

$$(3 \times 12) \div 3$$

Compare Stage 9

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

Compare Stage 9

$$\frac{6}{2} \times 12$$

Compare Stage 9

$$12 \times 3 \times \frac{3}{2}$$

Compare Stage 9

$$\left(\frac{3}{2} \times 10\right) + 6$$

Compare Stage 9

$$5 \times \frac{1}{8} \times \frac{1}{3}$$

Compare Stage 9

$$\frac{5}{8} \times \frac{1}{4}$$

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Compare Stage 9

$$\frac{4}{8} \times \frac{1}{2}$$

Compare Stage 9

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

Compare Stage 9

$$\frac{2}{8} \times \frac{5}{4}$$

Compare Stage 9

$$\frac{5}{9} \times \frac{1}{5}$$

Compare Stage 9

$$\frac{3}{5} \times \frac{4}{6}$$

Compare Stage 9

$$\frac{4}{5} \times \frac{5}{6}$$

Compare Stage 9

$$4 \times \frac{1}{6} \times \frac{3}{5}$$

Compare Stage 9

$$3 \times \frac{1}{6} \times 4$$

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Compare Stage 9

$$12 \div \frac{1}{3}$$

Compare Stage 9

$$12 \div \frac{1}{5}$$

Compare Stage 9

$$\frac{1}{4} \div 12$$

Compare Stage 9

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

Compare Stage 9

$$\frac{1}{6} \div 5 + 2$$

Compare Stage 9

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

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