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$1 + 1$

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$1 + 2$

CC BY NC 2024 Illustrative Mathematics®

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$2 + 1$

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$1 + 3$

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$2 + 3$

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CC BY NC 2024 Illustrative Mathematics®

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$2 + 6$

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$3 + 3$

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$4 + 3$

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$5 + 3$

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$7 + 3$

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CC BY NC 2024 Illustrative Mathematics®

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$4 + 5$

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$5 + 4$

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$8 - 4$

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CC BY NC 2024 Illustrative Mathematics®

Compare Stage 1

$1 - 0$

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Compare Stage 2

$1 + 10$
$10 + 1$

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CC BY NC 2024 Illustrative Mathematics®

Compare Stage 2

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Compare Stage 2

$6 + 8$
$8 + 6$

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$10 + 5$

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$10 + 10$

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$7 + 10$
$10 + 7$

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$8 + 10$
$10 + 8$

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

12×5

Compare Stage 3

13×4

Compare Stage 3

15×3

Compare Stage 3

9×5

Directions:

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

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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

$529 \div 23$

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Directions:

- Split the deck. Place the cards facedown in 2 stacks.
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$78 \div 6$

Compare Stages 4 and 5 One-Digit Divisors

$84 \div 7$

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$68 \div 4$

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

$\frac{3}{6}$

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

$\frac{2}{3}$

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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

$\frac{8}{8}$

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

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

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.

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

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

CC BY NC 2024 Illustrative Mathematics®

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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