

Fractions Worksheet-1 — Addition & Subtraction

Method: use the LCM of the denominators; for two coprime denominators this is the crosswise $(ad \pm bc) / bd$.

Add or subtract. Simplify your answer (write improper results as a mixed number).

Name: _____

Date: _____

Score: _____ / 20

1) $\frac{3}{5} - \frac{2}{5} =$

Answer: _____

2) $\frac{1}{4} + \frac{6}{11} =$

Answer: _____

3) $\frac{5}{6} + \frac{1}{2} =$

Answer: _____

4) $\frac{3}{7} + \frac{6}{7} =$

Answer: _____

5) $\frac{10}{11} - \frac{8}{11} =$

Answer: _____

6) $\frac{2}{3} + \frac{3}{11} =$

Answer: _____

7) $\frac{2}{5} + \frac{4}{9} =$

Answer: _____

8) $\frac{3}{4} + \frac{4}{5} =$

Answer: _____

9) $\frac{5}{12} + \frac{7}{12} =$

Answer: _____

10) $\frac{8}{9} - \frac{1}{3} =$

Answer: _____

Fractions Worksheet-1 — Addition & Subtraction

Method: use the LCM of the denominators; for two coprime denominators this is the crosswise $(ad \pm bc) / bd$.

Add or subtract. Simplify your answer (write improper results as a mixed number).

Name: _____

Date: _____

Score: _____ / 20

11) $\frac{8}{11} - \frac{3}{5} =$

Answer: _____

12) $\frac{2}{5} + \frac{4}{5} =$

Answer: _____

13) $\frac{1}{4} + \frac{1}{4} =$

Answer: _____

14) $\frac{5}{7} + \frac{1}{2} =$

Answer: _____

15) $\frac{2}{7} + \frac{5}{7} =$

Answer: _____

16) $\frac{1}{2} - \frac{2}{11} =$

Answer: _____

17) $\frac{1}{6} + \frac{5}{6} =$

Answer: _____

18) $\frac{9}{11} - \frac{1}{2} =$

Answer: _____

19) $\frac{6}{11} + \frac{1}{4} =$

Answer: _____

20) $\frac{1}{3} + \frac{2}{3} =$

Answer: _____

Fractions Worksheet-2 — Multiplication & Division

Method: multiply across — $(a/b)(c/d) = ac / bd$; to divide, multiply by the reciprocal — $(a/b)(d/c)$.

Multiply or divide. Simplify your answer (write improper results as a mixed number).

Name: _____

Date: _____

Score: _____ / 20

1) $\frac{1}{6} \div \frac{4}{7} =$

Answer: _____

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

Answer: _____

3) $\frac{1}{2} \times \frac{1}{2} =$

Answer: _____

4) $\frac{1}{2} \div \frac{2}{5} =$

Answer: _____

5) $\frac{3}{5} \times \frac{6}{7} =$

Answer: _____

6) $\frac{2}{3} \div \frac{2}{3} =$

Answer: _____

7) $\frac{1}{5} \div \frac{2}{3} =$

Answer: _____

8) $\frac{3}{7} \div \frac{7}{8} =$

Answer: _____

9) $\frac{3}{8} \times \frac{1}{2} =$

Answer: _____

10) $\frac{7}{10} \div \frac{4}{5} =$

Answer: _____

Fractions Worksheet-2 — Multiplication & Division

Method: multiply across — $(a/b)(c/d) = ac / bd$; to divide, multiply by the reciprocal — $(a/b)(d/c)$.

Multiply or divide. Simplify your answer (write improper results as a mixed number).

Name: _____

Date: _____

Score: _____ / 20

11) $\frac{1}{4} \div \frac{2}{5} =$

Answer: _____

12) $\frac{1}{3} \div \frac{1}{2} =$

Answer: _____

13) $\frac{1}{10} \times \frac{1}{10} =$

Answer: _____

14) $\frac{1}{2} \times \frac{2}{3} =$

Answer: _____

15) $\frac{2}{3} \times \frac{2}{5} =$

Answer: _____

16) $\frac{4}{5} \div \frac{1}{5} =$

Answer: _____

17) $\frac{1}{2} \times \frac{3}{8} =$

Answer: _____

18) $\frac{3}{4} \times \frac{1}{4} =$

Answer: _____

19) $\frac{1}{4} \times \frac{3}{10} =$

Answer: _____

20) $\frac{1}{5} \div \frac{3}{5} =$

Answer: _____

Fractions Worksheet-3 — Mixed Fractions & Ordering

Mixed: convert to improper fractions, then subtract. **Ordering:** compare pairs by cross-multiplication (bigger product wins).

Part A: subtract the mixed numbers (simplify). Part B: arrange each set of fractions in the stated order.

Name: _____

Date: _____

Score: _____ / 20

Part A — Subtraction of mixed fractions

1) $4\frac{7}{8} - 3\frac{2}{7} =$
Answer: _____

2) $2\frac{4}{5} - 1\frac{2}{3} =$
Answer: _____

3) $2\frac{3}{5} - 1\frac{3}{4} =$
Answer: _____

4) $3\frac{1}{2} - 2\frac{4}{7} =$
Answer: _____

5) $5\frac{1}{4} - 4\frac{2}{5} =$
Answer: _____

6) $6\frac{1}{4} - 5\frac{1}{2} =$
Answer: _____

7) $2\frac{3}{4} - 2\frac{3}{7} =$
Answer: _____

8) $3\frac{1}{8} - 1\frac{2}{5} =$
Answer: _____

9) $4\frac{1}{2} - 1\frac{2}{3} =$
Answer: _____

10) $5\frac{2}{5} - 1\frac{1}{2} =$
Answer: _____

Fractions Worksheet-3 — Mixed Fractions & Ordering

Mixed: convert to improper fractions, then subtract. Ordering: compare pairs by cross-multiplication (bigger product wins).

Part A: subtract the mixed numbers (simplify). Part B: arrange each set of fractions in the stated order.

Name: _____

Date: _____

Score: _____ / 20

Part B — Arrange in ascending / descending order

11) Arrange in ascending order:

$$\frac{5}{6}, \frac{1}{3}, \frac{4}{7}, \frac{3}{4}$$

Answer: _____

12) Arrange in ascending order:

$$\frac{8}{15}, \frac{2}{5}, \frac{1}{2}, \frac{5}{11}$$

Answer: _____

13) Arrange in ascending order:

$$\frac{4}{9}, \frac{1}{7}, \frac{5}{6}, \frac{3}{11}$$

Answer: _____

14) Arrange in descending order:

$$\frac{1}{2}, \frac{1}{3}, \frac{3}{4}, \frac{5}{8}$$

Answer: _____

15) Arrange in ascending order:

$$\frac{2}{3}, \frac{11}{15}, \frac{1}{3}, \frac{7}{13}$$

Answer: _____

Fractions Worksheet-3 — Mixed Fractions & Ordering

Mixed: convert to improper fractions, then subtract. Ordering: compare pairs by cross-multiplication (bigger product wins).

Part A: subtract the mixed numbers (simplify). Part B: arrange each set of fractions in the stated order.

Name: _____

Date: _____

Score: _____ / 20

Part B — Arrange in ascending / descending order

16) Arrange in ascending order:

$$\frac{3}{5}, \frac{5}{6}, \frac{3}{4}, \frac{5}{7}$$

Answer: _____

17) Arrange in ascending order:

$$\frac{9}{10}, \frac{1}{3}, \frac{5}{6}, \frac{1}{4}$$

Answer: _____

18) Arrange in ascending order:

$$\frac{2}{3}, \frac{11}{14}, \frac{3}{4}, \frac{3}{11}$$

Answer: _____

19) Arrange in descending order:

$$\frac{2}{3}, \frac{6}{7}, \frac{1}{2}, \frac{4}{7}$$

Answer: _____

20) Arrange in descending order:

$$\frac{11}{12}, \frac{2}{15}, \frac{1}{2}, \frac{3}{4}$$

Answer: _____

Worksheet-1 — Addition & Subtraction

- | | |
|--------------------------|------------------------------|
| 1) $1/5$ | 2) $35/44$ |
| 3) $4/3 = 1 \frac{1}{3}$ | 4) $9/7 = 1 \frac{2}{7}$ |
| 5) $2/11$ | 6) $31/33$ |
| 7) $38/45$ | 8) $31/20 = 1 \frac{11}{20}$ |
| 9) 1 | 10) $5/9$ |
| 11) $7/55$ | 12) $6/5 = 1 \frac{1}{5}$ |
| 13) $1/2$ | 14) $17/14 = 1 \frac{3}{14}$ |
| 15) 1 | 16) $7/22$ |
| 17) 1 | 18) $7/22$ |
| 19) $35/44$ | 20) 1 |

Worksheet-2 — Multiplication & Division

- | | |
|-------------|--------------------------|
| 1) $7/24$ | 2) $8/5 = 1 \frac{3}{5}$ |
| 3) $1/4$ | 4) $5/4 = 1 \frac{1}{4}$ |
| 5) $18/35$ | 6) 1 |
| 7) $3/10$ | 8) $24/49$ |
| 9) $3/16$ | 10) $7/8$ |
| 11) $5/8$ | 12) $2/3$ |
| 13) $1/100$ | 14) $1/3$ |
| 15) $4/15$ | 16) 4 |
| 17) $3/16$ | 18) $3/16$ |
| 19) $3/40$ | 20) $1/3$ |

Worksheet-3 Part A — Mixed Fractions

- | | |
|------------------------------|------------------------------|
| 1) $89/56 = 1 \frac{33}{56}$ | 2) $17/15 = 1 \frac{2}{15}$ |
| 3) $17/20$ | 4) $13/14$ |
| 5) $17/20$ | 6) $3/4$ |
| 7) $9/28$ | 8) $69/40 = 1 \frac{29}{40}$ |
| 9) $17/6 = 2 \frac{5}{6}$ | 10) $39/10 = 3 \frac{9}{10}$ |

Worksheet-3 Part B — Ordering

- 11) $1/3 < 4/7 < 3/4 < 5/6$
- 12) $2/5 < 5/11 < 1/2 < 8/15$
- 13) $1/7 < 3/11 < 4/9 < 5/6$
- 14) $3/4 > 5/8 > 1/2 > 1/3$
- 15) $1/3 < 7/13 < 2/3 < 11/15$
- 16) $3/5 < 5/7 < 3/4 < 5/6$
- 17) $1/4 < 1/3 < 5/6 < 9/10$
- 18) $3/11 < 2/3 < 3/4 < 11/14$
- 19) $6/7 > 2/3 > 4/7 > 1/2$
- 20) $11/12 > 3/4 > 1/2 > 2/15$