

Fractions: Add, Subtract, Multiply & Divide



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Name: _____

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Score: ____ / 10

DIRECTIONS

Simplify, add, subtract, multiply, or divide the fractions as indicated. Show all work and simplify all answers completely.

| | |
|---|--|
| 1. Simplify: $12/18$ Answer: _____ | 2. Simplify: $24/36$ Answer: _____ |
| 3. Add: $1/3 + 1/4$ Answer: _____ | 4. Add: $2/5 + 1/3$ Answer: _____ |
| 5. Subtract: $3/4 - 1/6$ Answer: _____ | 6. Subtract: $5/6 - 2/9$ Answer: _____ |
| 7. Multiply: $2/3 \times 3/4$ Answer: _____ | 8. Multiply: $5/8 \times 4/15$ Answer: _____ |
| 9. Divide: $(2/3) \div (4/5)$ Answer: _____ | 10. Divide: $(7/8) \div (7/4)$ Answer: _____ |

Based on the Numberbender lesson "How to Add, Subtract, Divide, Multiply Fractions" • youtu.be/n2KVURGYZ1A

Answer Key & Solutions

Math: Fractions • Numberbender

TEACHER NOTES

Items 1–2: simplifying using GCF. Items 3–4: adding with LCD. Items 5–6: subtracting with LCD. Items 7–8: multiplying and simplifying. Items 9–10: dividing using Keep-Change-Flip.

1. Simplify: $12/18$

Answer: $2/3$

GCF of 12 and 18 is 6; divide both by 6.

2. Simplify: $24/36$

Answer: $2/3$

GCF of 24 and 36 is 12; divide both by 12.

3. Add: $1/3 + 1/4$

Answer: $7/12$

LCD = 12; $4/12 + 3/12 = 7/12$.

4. Add: $2/5 + 1/3$

Answer: $11/15$

LCD = 15; $6/15 + 5/15 = 11/15$.

5. Subtract: $3/4 - 1/6$

Answer: $7/12$

LCD = 12; $9/12 - 2/12 = 7/12$.

6. Subtract: $5/6 - 2/9$

Answer: $11/18$

LCD = 18; $15/18 - 4/18 = 11/18$.

7. Multiply: $2/3 \times 3/4$

Answer: $1/2$

Multiply across: $6/12$; simplify by GCF 6 $\rightarrow 1/2$.

8. Multiply: $5/8 \times 4/15$

Answer: $1/6$

$20/120$; simplify by GCF 20 $\rightarrow 1/6$.

9. Divide: $(2/3) \div (4/5)$

Answer: $5/6$

Keep-Change-Flip: $2/3 \times 5/4 = 10/12 = 5/6$.

10. Divide: $(7/8) \div (7/4)$

Answer: $1/2$

Keep-Change-Flip: $7/8 \times 4/7 = 28/56 = 1/2$.