

Fractions

Reduce each fraction. The fraction in the answer should be in the same form as the fraction from the question.

1) $\frac{30}{36}$

2) $\frac{18}{54}$

3) $\frac{27}{18}$

4) $\frac{100}{40}$

5) $6\frac{12}{20}$

6) $8\frac{6}{18}$

BONUS: Reduce each fraction.

7) $\frac{5p^2}{8p^4}$

8) $\frac{8u^2v^4}{5u^4v^2}$

Find each sum.

9) $\frac{7}{4} + \frac{1}{4}$

10) $\frac{1}{2} + \frac{3}{2}$

11) $\frac{3}{2} + \frac{5}{6}$

12) $\frac{13}{7} + \frac{1}{2}$

Find each difference.

13) $\frac{4}{3} - \frac{2}{3}$

14) $\frac{9}{8} - \frac{3}{8}$

15) $\frac{7}{4} - \frac{3}{2}$

16) $\frac{4}{3} - \frac{9}{8}$

Find each product.

17) $4 \cdot \frac{2}{3}$

18) $\frac{8}{5} \cdot \frac{1}{3}$

19) $\left(\frac{4}{5}\right)\left(\frac{8}{5}\right)$

20) $\left(\frac{3}{2}\right)\left(\frac{7}{4}\right)$

Find each quotient.

21) $\frac{2}{9} \div \frac{1}{3}$

22) $\frac{3}{8} \div \frac{5}{7}$

23) $\frac{\frac{4}{9}}{\frac{7}{6}}$

24) $\frac{\frac{9}{5}}{\frac{3}{2}}$

BONUS: Simplify the algebraic expressions below.

25) $\frac{5}{4x} + \frac{3}{4x}$

26) $\frac{5x}{5y} - \frac{2x}{5y}$

27) $\frac{3}{4x} \cdot \frac{2y}{5}$

28) $\frac{2y}{6x} \div \frac{3x}{2}$

Evaluate each numeric expression.

29) $1 + 2 - \frac{5}{6}$

30) $\left(\frac{4}{3} \cdot 2^2\right) \div \frac{1}{5}$