

Worksheet 2.6

Order of Operations; Estimation.

Simplify. See examples on pages 127-128 in text.

1. $\left(\frac{2}{9} + \frac{8}{9}\right) \cdot \frac{4}{11}$

A) $\frac{40}{11}$ B) $\frac{40}{99}$ C) $\frac{19}{29}$ D) $\frac{19}{99}$

2. $\frac{3}{5} \div \frac{1}{2} - \frac{2}{5}$

A) $\frac{8}{5}$ B) $\frac{4}{5}$ C) 1 D) 2

3. $\frac{7}{8} \cdot \left(\frac{1}{10} + \frac{1}{5}\right) \cdot \frac{32}{7}$

A) $2\frac{2}{5}$ B) $1\frac{1}{5}$ C) $\frac{3}{5}$ D) $\frac{4}{5}$

4. $\left(\frac{2}{3} - \frac{1}{6}\right) \div \left(\frac{1}{4} + \frac{4}{5}\right)$

A) $\frac{10}{63}$ B) $\frac{14}{5}$ C) $\frac{32}{63}$ D) $\frac{10}{21}$

5. $\left(\frac{3}{6} + \frac{3}{8} + \frac{1}{4}\right) \div 2$

A) $\frac{9}{16}$ B) $\frac{7}{9}$ C) $2\frac{1}{4}$ D) $\frac{1}{2}$

Estimate the fraction as 0, $\frac{1}{2}$, or 1. See examples on page 129 in text.

6. $\frac{8}{14}$

- A) 0 B) $\frac{1}{2}$ C) 1

Find a number so that the fraction is close to but less than 1. See examples on page 129 in text.

7. $\frac{\square}{95}$

- A) 98 B) 94 C) 1 D) 0

Estimate the value as a whole number or as a mixed numeral where the fractional part is $\frac{1}{2}$. See examples on page 129 in text.

8. $4\frac{8}{15} - \frac{18}{19} + 1\frac{31}{34} \cdot 10\frac{25}{52}$

- A) $17\frac{1}{2}$ B) $24\frac{1}{2}$ C) 10 D) 18

9. $\frac{3}{2} + \frac{3}{4} - \frac{3}{5}$

- A) 2 B) 3 C) $2\frac{13}{20}$ D) $\frac{9}{11}$

Find the prime factorization of the number. See examples on pages 63-64 in text.

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- A) $5 \cdot 5 \cdot 47$ B) $2 \cdot 2 \cdot 47$ C) $10 \cdot 47$ D) $2 \cdot 5 \cdot 47$