



Factor each expression completely.

1)  $\frac{24}{54}b + \frac{18}{36} =$  \_\_\_\_\_

2)  $\frac{4}{63}c - \frac{6}{14} =$  \_\_\_\_\_

3)  $-\frac{10}{36}d - \frac{6}{30} =$  \_\_\_\_\_

4)  $-\frac{4}{15}e - \frac{8}{10} =$  \_\_\_\_\_

5)  $-\frac{16}{64}f - \frac{20}{24} =$  \_\_\_\_\_

6)  $\frac{2}{36}g + \frac{2}{72} =$  \_\_\_\_\_

7)  $-\frac{21}{56}h + \frac{3}{49} =$  \_\_\_\_\_

8)  $-\frac{6}{48}i + \frac{12}{64} =$  \_\_\_\_\_

9)  $-\frac{16}{30}j - \frac{16}{18} =$  \_\_\_\_\_

10)  $\frac{10}{45}k + \frac{12}{30} =$  \_\_\_\_\_

**Answers**

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_



Factor each expression completely.

$$1) \frac{24}{54}b + \frac{18}{36} = \underline{\frac{6}{18}(\frac{4}{3}b + \frac{3}{2})}$$

$$2) \frac{4}{63}c - \frac{6}{14} = \underline{\frac{2}{7}(\frac{2}{9}c - \frac{3}{2})}$$

$$3) -\frac{10}{36}d - \frac{6}{30} = \underline{-\frac{2}{6}(\frac{5}{6}d + \frac{3}{5})}$$

$$4) -\frac{4}{15}e - \frac{8}{10} = \underline{-\frac{4}{5}(\frac{1}{3}e + \frac{2}{2})}$$

$$5) -\frac{16}{64}f - \frac{20}{24} = \underline{-\frac{4}{8}(\frac{4}{8}f + \frac{5}{3})}$$

$$6) \frac{2}{36}g + \frac{2}{72} = \underline{\frac{2}{36}(\frac{1}{18}g + \frac{1}{2})}$$

$$7) -\frac{21}{56}h + \frac{3}{49} = \underline{-\frac{3}{7}(\frac{7}{8}h - \frac{1}{7})}$$

$$8) -\frac{6}{48}i + \frac{12}{64} = \underline{-\frac{6}{16}(\frac{1}{3}i - \frac{2}{4})}$$

$$9) -\frac{16}{30}j - \frac{16}{18} = \underline{-\frac{16}{6}(\frac{1}{5}j + \frac{1}{3})}$$

$$10) \frac{10}{45}k + \frac{12}{30} = \underline{\frac{2}{15}(\frac{5}{3}k + \frac{6}{2})}$$

**Answers**

1.  $\underline{\frac{6}{18}(\frac{4}{3}b + \frac{3}{2})}$

2.  $\underline{\frac{2}{7}(\frac{2}{9}c - \frac{3}{2})}$

3.  $\underline{-\frac{2}{6}(\frac{5}{6}d + \frac{3}{5})}$

4.  $\underline{-\frac{4}{5}(\frac{1}{3}e + \frac{2}{2})}$

5.  $\underline{-\frac{4}{8}(\frac{4}{8}f + \frac{5}{3})}$

6.  $\underline{\frac{2}{36}(\frac{1}{18}g + \frac{1}{2})}$

7.  $\underline{-\frac{3}{7}(\frac{7}{8}h - \frac{1}{7})}$

8.  $\underline{-\frac{6}{16}(\frac{1}{3}i - \frac{2}{4})}$

9.  $\underline{-\frac{16}{6}(\frac{1}{5}j + \frac{1}{3})}$

10.  $\underline{\frac{2}{15}(\frac{5}{3}k + \frac{6}{2})}$