



Factor each expression completely.

1)  $-\frac{12}{63}b + \frac{8}{63} =$  \_\_\_\_\_

2)  $\frac{8}{45}c - \frac{12}{30} =$  \_\_\_\_\_

3)  $\frac{6}{42}d + \frac{6}{49} =$  \_\_\_\_\_

4)  $\frac{10}{42}e - \frac{8}{48} =$  \_\_\_\_\_

5)  $\frac{3}{8}f + \frac{3}{24} =$  \_\_\_\_\_

6)  $-\frac{12}{56}g + \frac{4}{56} =$  \_\_\_\_\_

7)  $-\frac{6}{20}h + \frac{2}{8} =$  \_\_\_\_\_

8)  $-\frac{8}{30}i + \frac{12}{42} =$  \_\_\_\_\_

9)  $\frac{2}{10}j + \frac{2}{10} =$  \_\_\_\_\_

10)  $\frac{9}{28}k + \frac{6}{35} =$  \_\_\_\_\_

**Answers**

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

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

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

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

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

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

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

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

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

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



Factor each expression completely.

$$1) -\frac{12}{63}b + \frac{8}{63} = \underline{-\frac{4}{63}(\frac{3}{1}b - \frac{2}{1})}$$

$$2) \frac{8}{45}c - \frac{12}{30} = \underline{\frac{4}{15}(\frac{2}{3}c - \frac{3}{2})}$$

$$3) \frac{6}{42}d + \frac{6}{49} = \underline{\frac{6}{7}(\frac{1}{6}d + \frac{1}{7})}$$

$$4) \frac{10}{42}e - \frac{8}{48} = \underline{\frac{2}{6}(\frac{5}{7}e - \frac{4}{8})}$$

$$5) \frac{3}{8}f + \frac{3}{24} = \underline{\frac{3}{8}(\frac{1}{1}f + \frac{1}{3})}$$

$$6) -\frac{12}{56}g + \frac{4}{56} = \underline{-\frac{4}{56}(\frac{3}{1}g - \frac{1}{1})}$$

$$7) -\frac{6}{20}h + \frac{2}{8} = \underline{-\frac{2}{4}(\frac{3}{5}h - \frac{1}{2})}$$

$$8) -\frac{8}{30}i + \frac{12}{42} = \underline{-\frac{4}{6}(\frac{2}{5}i - \frac{3}{7})}$$

$$9) \frac{2}{10}j + \frac{2}{10} = \underline{\frac{2}{10}(\frac{1}{1}j + \frac{1}{1})}$$

$$10) \frac{9}{28}k + \frac{6}{35} = \underline{\frac{3}{7}(\frac{3}{4}k + \frac{2}{5})}$$

**Answers**

1.  $\underline{-\frac{4}{63}(\frac{3}{1}b - \frac{2}{1})}$

2.  $\underline{\frac{4}{15}(\frac{2}{3}c - \frac{3}{2})}$

3.  $\underline{\frac{6}{7}(\frac{1}{6}d + \frac{1}{7})}$

4.  $\underline{\frac{2}{6}(\frac{5}{7}e - \frac{4}{8})}$

5.  $\underline{\frac{3}{8}(\frac{1}{1}f + \frac{1}{3})}$

6.  $\underline{-\frac{4}{56}(\frac{3}{1}g - \frac{1}{1})}$

7.  $\underline{-\frac{2}{4}(\frac{3}{5}h - \frac{1}{2})}$

8.  $\underline{-\frac{4}{6}(\frac{2}{5}i - \frac{3}{7})}$

9.  $\underline{\frac{2}{10}(\frac{1}{1}j + \frac{1}{1})}$

10.  $\underline{\frac{3}{7}(\frac{3}{4}k + \frac{2}{5})}$