



Factor each expression completely.

1)  $\frac{3}{14}b + \frac{3}{35} =$  \_\_\_\_\_

2)  $-\frac{4}{20}c + \frac{8}{10} =$  \_\_\_\_\_

3)  $\frac{2}{25}d - \frac{8}{40} =$  \_\_\_\_\_

4)  $\frac{2}{32}e - \frac{4}{56} =$  \_\_\_\_\_

5)  $\frac{16}{27}f + \frac{16}{15} =$  \_\_\_\_\_

6)  $-\frac{4}{18}g - \frac{2}{54} =$  \_\_\_\_\_

7)  $-\frac{12}{35}h + \frac{8}{14} =$  \_\_\_\_\_

8)  $-\frac{16}{40}i - \frac{8}{56} =$  \_\_\_\_\_

9)  $\frac{6}{20}j - \frac{9}{16} =$  \_\_\_\_\_

10)  $-\frac{12}{35}k + \frac{16}{20} =$  \_\_\_\_\_

**Answers**

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

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

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

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

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

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

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

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

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

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



Factor each expression completely.

$$1) \frac{3}{14}b + \frac{3}{35} = \underline{\frac{3}{7}(\frac{1}{2}b + \frac{1}{5})}$$

$$2) -\frac{4}{20}c + \frac{8}{10} = \underline{-\frac{4}{10}(\frac{1}{2}c - \frac{2}{1})}$$

$$3) \frac{2}{25}d - \frac{8}{40} = \underline{\frac{2}{5}(\frac{1}{5}d - \frac{4}{8})}$$

$$4) \frac{2}{32}e - \frac{4}{56} = \underline{\frac{2}{8}(\frac{1}{4}e - \frac{2}{7})}$$

$$5) \frac{16}{27}f + \frac{16}{15} = \underline{\frac{16}{3}(\frac{1}{9}f + \frac{1}{5})}$$

$$6) -\frac{4}{18}g - \frac{2}{54} = \underline{-\frac{2}{18}(\frac{2}{1}g + \frac{1}{3})}$$

$$7) -\frac{12}{35}h + \frac{8}{14} = \underline{-\frac{4}{7}(\frac{3}{5}h - \frac{2}{2})}$$

$$8) -\frac{16}{40}i - \frac{8}{56} = \underline{-\frac{8}{8}(\frac{2}{5}i + \frac{1}{7})}$$

$$9) \frac{6}{20}j - \frac{9}{16} = \underline{\frac{3}{4}(\frac{2}{5}j - \frac{3}{4})}$$

$$10) -\frac{12}{35}k + \frac{16}{20} = \underline{-\frac{4}{5}(\frac{3}{7}k - \frac{4}{4})}$$

**Answers**

1.  $\underline{\frac{3}{7}(\frac{1}{2}b + \frac{1}{5})}$

2.  $\underline{-\frac{4}{10}(\frac{1}{2}c - \frac{2}{1})}$

3.  $\underline{\frac{2}{5}(\frac{1}{5}d - \frac{4}{8})}$

4.  $\underline{\frac{2}{8}(\frac{1}{4}e - \frac{2}{7})}$

5.  $\underline{\frac{16}{3}(\frac{1}{9}f + \frac{1}{5})}$

6.  $\underline{-\frac{2}{18}(\frac{2}{1}g + \frac{1}{3})}$

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

8.  $\underline{-\frac{8}{8}(\frac{2}{5}i + \frac{1}{7})}$

9.  $\underline{\frac{3}{4}(\frac{2}{5}j - \frac{3}{4})}$

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