



Factor each expression completely.

1)  $-\frac{3}{12b} + \frac{3}{12} =$  \_\_\_\_\_

2)  $-\frac{4}{24c} - \frac{8}{42} =$  \_\_\_\_\_

3)  $-\frac{14}{27d} + \frac{8}{12} =$  \_\_\_\_\_

4)  $-\frac{3}{30e} + \frac{6}{25} =$  \_\_\_\_\_

5)  $-\frac{3}{81f} + \frac{6}{63} =$  \_\_\_\_\_

6)  $-\frac{8}{42g} - \frac{12}{35} =$  \_\_\_\_\_

7)  $\frac{8}{32h} + \frac{8}{48} =$  \_\_\_\_\_

8)  $-\frac{4}{64j} - \frac{28}{32} =$  \_\_\_\_\_

9)  $-\frac{4}{12k} + \frac{6}{9} =$  \_\_\_\_\_

10)  $-\frac{4}{36m} - \frac{4}{63} =$  \_\_\_\_\_

**Answers**

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

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

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

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

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

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

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

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

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

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



Factor each expression completely.

$$1) -\frac{3}{12b} + \frac{3}{12} = \underline{-\frac{3}{12}(\frac{1}{1}b - \frac{1}{1})}$$

$$2) -\frac{4}{24c} - \frac{8}{42} = \underline{-\frac{4}{6}(\frac{1}{4}c + \frac{2}{7})}$$

$$3) -\frac{14}{27d} + \frac{8}{12} = \underline{-\frac{2}{3}(\frac{7}{9}d - \frac{4}{4})}$$

$$4) -\frac{3}{30e} + \frac{6}{25} = \underline{-\frac{3}{5}(\frac{1}{6}e - \frac{2}{5})}$$

$$5) -\frac{3}{81f} + \frac{6}{63} = \underline{-\frac{3}{9}(\frac{1}{9}f - \frac{2}{7})}$$

$$6) -\frac{8}{42g} - \frac{12}{35} = \underline{-\frac{4}{7}(\frac{2}{6}g + \frac{3}{5})}$$

$$7) \frac{8}{32h} + \frac{8}{48} = \underline{\frac{8}{16}(\frac{1}{2}h + \frac{1}{3})}$$

$$8) -\frac{4}{64j} - \frac{28}{32} = \underline{-\frac{4}{32}(\frac{1}{2}j + \frac{7}{1})}$$

$$9) -\frac{4}{12k} + \frac{6}{9} = \underline{-\frac{2}{3}(\frac{2}{4}k - \frac{3}{3})}$$

$$10) -\frac{4}{36m} - \frac{4}{63} = \underline{-\frac{4}{9}(\frac{1}{4}m + \frac{1}{7})}$$

**Answers**

1.  $\underline{-\frac{3}{12}(\frac{1}{1}b - \frac{1}{1})}$

2.  $\underline{-\frac{4}{6}(\frac{1}{4}c + \frac{2}{7})}$

3.  $\underline{-\frac{2}{3}(\frac{7}{9}d - \frac{4}{4})}$

4.  $\underline{-\frac{3}{5}(\frac{1}{6}e - \frac{2}{5})}$

5.  $\underline{-\frac{3}{9}(\frac{1}{9}f - \frac{2}{7})}$

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

7.  $\underline{\frac{8}{16}(\frac{1}{2}h + \frac{1}{3})}$

8.  $\underline{-\frac{4}{32}(\frac{1}{2}j + \frac{7}{1})}$

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

10.  $\underline{-\frac{4}{9}(\frac{1}{4}m + \frac{1}{7})}$