



Factor each expression completely.

1)  $-\frac{4}{18}b + \frac{4}{54} =$  \_\_\_\_\_

2)  $-\frac{12}{24}c - \frac{12}{12} =$  \_\_\_\_\_

3)  $\frac{4}{42}d + \frac{8}{28} =$  \_\_\_\_\_

4)  $-\frac{8}{36}e - \frac{12}{36} =$  \_\_\_\_\_

5)  $-\frac{8}{32}f + \frac{12}{48} =$  \_\_\_\_\_

6)  $-\frac{3}{16}g + \frac{3}{56} =$  \_\_\_\_\_

7)  $\frac{20}{30}h + \frac{12}{45} =$  \_\_\_\_\_

8)  $\frac{12}{36}i + \frac{16}{20} =$  \_\_\_\_\_

9)  $-\frac{6}{32}j + \frac{3}{32} =$  \_\_\_\_\_

10)  $-\frac{4}{21}k + \frac{8}{35} =$  \_\_\_\_\_

**Answers**

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

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

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

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

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

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

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

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

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

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



Factor each expression completely.

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

$$2) -\frac{12}{24}c - \frac{12}{12} = \underline{-\frac{12}{12}(\frac{1}{2}c + \frac{1}{1})}$$

$$3) \frac{4}{42}d + \frac{8}{28} = \underline{\frac{4}{14}(\frac{1}{3}d + \frac{2}{2})}$$

$$4) -\frac{8}{36}e - \frac{12}{36} = \underline{-\frac{4}{36}(\frac{2}{1}e + \frac{3}{1})}$$

$$5) -\frac{8}{32}f + \frac{12}{48} = \underline{-\frac{4}{16}(\frac{2}{2}f - \frac{3}{3})}$$

$$6) -\frac{3}{16}g + \frac{3}{56} = \underline{-\frac{3}{8}(\frac{1}{2}g - \frac{1}{7})}$$

$$7) \frac{20}{30}h + \frac{12}{45} = \underline{\frac{4}{15}(\frac{5}{2}h + \frac{3}{3})}$$

$$8) \frac{12}{36}i + \frac{16}{20} = \underline{\frac{4}{4}(\frac{3}{9}i + \frac{4}{5})}$$

$$9) -\frac{6}{32}j + \frac{3}{32} = \underline{-\frac{3}{32}(\frac{2}{1}j - \frac{1}{1})}$$

$$10) -\frac{4}{21}k + \frac{8}{35} = \underline{-\frac{4}{7}(\frac{1}{3}k - \frac{2}{5})}$$

**Answers**

1.  $\underline{-\frac{4}{18}(\frac{1}{1}b - \frac{1}{3})}$

2.  $\underline{-\frac{12}{12}(\frac{1}{2}c + \frac{1}{1})}$

3.  $\underline{\frac{4}{14}(\frac{1}{3}d + \frac{2}{2})}$

4.  $\underline{-\frac{4}{36}(\frac{2}{1}e + \frac{3}{1})}$

5.  $\underline{-\frac{4}{16}(\frac{2}{2}f - \frac{3}{3})}$

6.  $\underline{-\frac{3}{8}(\frac{1}{2}g - \frac{1}{7})}$

7.  $\underline{\frac{4}{15}(\frac{5}{2}h + \frac{3}{3})}$

8.  $\underline{\frac{4}{4}(\frac{3}{9}i + \frac{4}{5})}$

9.  $\underline{-\frac{3}{32}(\frac{2}{1}j - \frac{1}{1})}$

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