



Factor each expression completely.

1)  $-\frac{20}{48}b - \frac{16}{72} =$  \_\_\_\_\_

2)  $\frac{9}{28}c + \frac{3}{63} =$  \_\_\_\_\_

3)  $\frac{4}{30}d - \frac{2}{54} =$  \_\_\_\_\_

4)  $\frac{12}{36}e - \frac{10}{36} =$  \_\_\_\_\_

5)  $-\frac{20}{81}f - \frac{20}{63} =$  \_\_\_\_\_

6)  $\frac{16}{63}g + \frac{8}{14} =$  \_\_\_\_\_

7)  $\frac{24}{81}h - \frac{12}{54} =$  \_\_\_\_\_

8)  $-\frac{12}{20}i + \frac{9}{20} =$  \_\_\_\_\_

9)  $\frac{3}{72}j - \frac{6}{16} =$  \_\_\_\_\_

10)  $\frac{6}{12}k + \frac{6}{12} =$  \_\_\_\_\_

**Answers**

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

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

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

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

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

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

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

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

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

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



Factor each expression completely.

$$1) \quad -\frac{20}{48}b - \frac{16}{72} = \underline{-\frac{4}{24}(\frac{5}{2}b + \frac{4}{3})}$$

$$2) \quad \frac{9}{28}c + \frac{3}{63} = \underline{\frac{3}{7}(\frac{3}{4}c + \frac{1}{9})}$$

$$3) \quad \frac{4}{30}d - \frac{2}{54} = \underline{\frac{2}{6}(\frac{2}{5}d - \frac{1}{9})}$$

$$4) \quad \frac{12}{36}e - \frac{10}{36} = \underline{\frac{2}{36}(\frac{6}{1}e - \frac{5}{1})}$$

$$5) \quad -\frac{20}{81}f - \frac{20}{63} = \underline{-\frac{20}{9}(\frac{1}{9}f + \frac{1}{7})}$$

$$6) \quad \frac{16}{63}g + \frac{8}{14} = \underline{\frac{8}{7}(\frac{2}{9}g + \frac{1}{2})}$$

$$7) \quad \frac{24}{81}h - \frac{12}{54} = \underline{\frac{12}{27}(\frac{2}{3}h - \frac{1}{2})}$$

$$8) \quad -\frac{12}{20}i + \frac{9}{20} = \underline{-\frac{3}{20}(\frac{4}{1}i - \frac{3}{1})}$$

$$9) \quad \frac{3}{72}j - \frac{6}{16} = \underline{\frac{3}{8}(\frac{1}{9}j - \frac{2}{2})}$$

$$10) \quad \frac{6}{12}k + \frac{6}{12} = \underline{\frac{6}{12}(\frac{1}{1}k + \frac{1}{1})}$$

**Answers**

1.  $\underline{-\frac{4}{24}(\frac{5}{2}b + \frac{4}{3})}$

2.  $\underline{\frac{3}{7}(\frac{3}{4}c + \frac{1}{9})}$

3.  $\underline{\frac{2}{6}(\frac{2}{5}d - \frac{1}{9})}$

4.  $\underline{\frac{2}{36}(\frac{6}{1}e - \frac{5}{1})}$

5.  $\underline{-\frac{20}{9}(\frac{1}{9}f + \frac{1}{7})}$

6.  $\underline{\frac{8}{7}(\frac{2}{9}g + \frac{1}{2})}$

7.  $\underline{\frac{12}{27}(\frac{2}{3}h - \frac{1}{2})}$

8.  $\underline{-\frac{3}{20}(\frac{4}{1}i - \frac{3}{1})}$

9.  $\underline{\frac{3}{8}(\frac{1}{9}j - \frac{2}{2})}$

10.  $\underline{\frac{6}{12}(\frac{1}{1}k + \frac{1}{1})}$