



Factor each expression completely.

1) $\frac{16}{45b} + \frac{8}{45} =$ _____

2) $-\frac{8}{45c} + \frac{6}{36} =$ _____

3) $\frac{8}{63d} - \frac{16}{18} =$ _____

4) $\frac{24}{56e} - \frac{24}{14} =$ _____

5) $-\frac{4}{12f} + \frac{4}{27} =$ _____

6) $-\frac{6}{28g} + \frac{12}{36} =$ _____

7) $-\frac{4}{40h} - \frac{16}{30} =$ _____

8) $\frac{12}{63j} + \frac{4}{27} =$ _____

9) $\frac{12}{35k} - \frac{12}{28} =$ _____

10) $\frac{8}{72m} + \frac{24}{81} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{16}{45}b + \frac{8}{45} = \underline{\frac{8}{45}\left(\frac{2}{1}b + \frac{1}{1}\right)}$$

$$2) -\frac{8}{45}c + \frac{6}{36} = \underline{-\frac{2}{9}\left(\frac{4}{5}c - \frac{3}{4}\right)}$$

$$3) \frac{8}{63}d - \frac{16}{18} = \underline{\frac{8}{9}\left(\frac{1}{7}d - \frac{2}{2}\right)}$$

$$4) \frac{24}{56}e - \frac{24}{14} = \underline{\frac{24}{14}\left(\frac{1}{4}e - \frac{1}{1}\right)}$$

$$5) -\frac{4}{12}f + \frac{4}{27} = \underline{-\frac{4}{3}\left(\frac{1}{4}f - \frac{1}{9}\right)}$$

$$6) -\frac{6}{28}g + \frac{12}{36} = \underline{-\frac{6}{4}\left(\frac{1}{7}g - \frac{2}{9}\right)}$$

$$7) -\frac{4}{40}h - \frac{16}{30} = \underline{-\frac{4}{10}\left(\frac{1}{4}h + \frac{4}{3}\right)}$$

$$8) \frac{12}{63}j + \frac{4}{27} = \underline{\frac{4}{9}\left(\frac{3}{7}j + \frac{1}{3}\right)}$$

$$9) \frac{12}{35}k - \frac{12}{28} = \underline{\frac{12}{7}\left(\frac{1}{5}k - \frac{1}{4}\right)}$$

$$10) \frac{8}{72}m + \frac{24}{81} = \underline{\frac{8}{9}\left(\frac{1}{8}m + \frac{3}{9}\right)}$$

Answers

1. $\underline{\frac{8}{45}\left(\frac{2}{1}b + \frac{1}{1}\right)}$

2. $\underline{-\frac{2}{9}\left(\frac{4}{5}c - \frac{3}{4}\right)}$

3. $\underline{\frac{8}{9}\left(\frac{1}{7}d - \frac{2}{2}\right)}$

4. $\underline{\frac{24}{14}\left(\frac{1}{4}e - \frac{1}{1}\right)}$

5. $\underline{-\frac{4}{3}\left(\frac{1}{4}f - \frac{1}{9}\right)}$

6. $\underline{-\frac{6}{4}\left(\frac{1}{7}g - \frac{2}{9}\right)}$

7. $\underline{-\frac{4}{10}\left(\frac{1}{4}h + \frac{4}{3}\right)}$

8. $\underline{\frac{4}{9}\left(\frac{3}{7}j + \frac{1}{3}\right)}$

9. $\underline{\frac{12}{7}\left(\frac{1}{5}k - \frac{1}{4}\right)}$

10. $\underline{\frac{8}{9}\left(\frac{1}{8}m + \frac{3}{9}\right)}$