



Factor each expression completely.

1) $-\frac{6}{35b} - \frac{12}{40} =$ _____

2) $\frac{4}{20c} + \frac{4}{25} =$ _____

3) $-\frac{20}{49d} - \frac{16}{21} =$ _____

4) $\frac{4}{28e} - \frac{4}{42} =$ _____

5) $\frac{4}{15f} - \frac{4}{40} =$ _____

6) $\frac{6}{27g} - \frac{6}{54} =$ _____

7) $-\frac{2}{24h} + \frac{4}{42} =$ _____

8) $-\frac{12}{30j} - \frac{16}{12} =$ _____

9) $\frac{14}{56k} - \frac{6}{14} =$ _____

10) $\frac{4}{20m} + \frac{12}{40} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) -\frac{6}{35}b - \frac{12}{40} = \underline{-\frac{6}{5}\left(\frac{1}{7}b + \frac{2}{8}\right)}$$

$$2) \frac{4}{20}c + \frac{4}{25} = \underline{\frac{4}{5}\left(\frac{1}{4}c + \frac{1}{5}\right)}$$

$$3) -\frac{20}{49}d - \frac{16}{21} = \underline{-\frac{4}{7}\left(\frac{5}{7}d + \frac{4}{3}\right)}$$

$$4) \frac{4}{28}e - \frac{4}{42} = \underline{\frac{4}{14}\left(\frac{1}{2}e - \frac{1}{3}\right)}$$

$$5) \frac{4}{15}f - \frac{4}{40} = \underline{\frac{4}{5}\left(\frac{1}{3}f - \frac{1}{8}\right)}$$

$$6) \frac{6}{27}g - \frac{6}{54} = \underline{\frac{6}{27}\left(\frac{1}{18}g - \frac{1}{2}\right)}$$

$$7) -\frac{2}{24}h + \frac{4}{42} = \underline{-\frac{2}{6}\left(\frac{1}{4}h - \frac{2}{7}\right)}$$

$$8) -\frac{12}{30}j - \frac{16}{12} = \underline{-\frac{4}{6}\left(\frac{3}{5}j + \frac{4}{2}\right)}$$

$$9) \frac{14}{56}k - \frac{6}{14} = \underline{\frac{2}{14}\left(\frac{7}{4}k - \frac{3}{1}\right)}$$

$$10) \frac{4}{20}m + \frac{12}{40} = \underline{\frac{4}{20}\left(\frac{1}{1}m + \frac{3}{2}\right)}$$

Answers

1. $\underline{-\frac{6}{5}\left(\frac{1}{7}b + \frac{2}{8}\right)}$

2. $\underline{\frac{4}{5}\left(\frac{1}{4}c + \frac{1}{5}\right)}$

3. $\underline{-\frac{4}{7}\left(\frac{5}{7}d + \frac{4}{3}\right)}$

4. $\underline{\frac{4}{14}\left(\frac{1}{2}e - \frac{1}{3}\right)}$

5. $\underline{\frac{4}{5}\left(\frac{1}{3}f - \frac{1}{8}\right)}$

6. $\underline{\frac{6}{27}\left(\frac{1}{18}g - \frac{1}{2}\right)}$

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

8. $\underline{-\frac{4}{6}\left(\frac{3}{5}j + \frac{4}{2}\right)}$

9. $\underline{\frac{2}{14}\left(\frac{7}{4}k - \frac{3}{1}\right)}$

10. $\underline{\frac{4}{20}\left(\frac{1}{1}m + \frac{3}{2}\right)}$