



Factoring Expressions

Name: _____

Factor each expression completely.

1) $-\frac{6}{40}b + \frac{9}{56} =$ _____

1. _____

2) $\frac{4}{32}c + \frac{2}{72} =$ _____

2. _____

3) $\frac{9}{64}d + \frac{15}{32} =$ _____

3. _____

4) $\frac{28}{45}e + \frac{24}{30} =$ _____

4. _____

5) $-\frac{18}{63}f + \frac{18}{54} =$ _____

5. _____

6) $\frac{18}{72}g + \frac{15}{63} =$ _____

6. _____

7) $-\frac{9}{35}h + \frac{3}{20} =$ _____

7. _____

8) $-\frac{4}{10}i - \frac{4}{10} =$ _____

8. _____

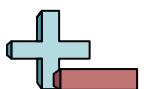
9) $\frac{9}{48}j + \frac{12}{12} =$ _____

9. _____

10) $-\frac{8}{54}k + \frac{4}{54} =$ _____

10. _____

Answers



Factoring Expressions

Name: **Answer Key**

Factor each expression completely.

1) $-\frac{6}{40}b + \frac{9}{56} = \underline{-\frac{3}{8}(\frac{2}{5}b - \frac{3}{7})}$

2) $\frac{4}{32}c + \frac{2}{72} = \underline{\frac{1}{8}(\frac{2}{4}c + \frac{1}{9})}$

3) $\frac{9}{64}d + \frac{15}{32} = \underline{\frac{3}{32}(\frac{3}{2}d + \frac{5}{1})}$

4) $\frac{28}{45}e + \frac{24}{30} = \underline{\frac{4}{15}(\frac{7}{3}e + \frac{6}{2})}$

5) $-\frac{18}{63}f + \frac{18}{54} = \underline{-\frac{18}{9}(\frac{1}{7}f - \frac{1}{6})}$

6) $\frac{18}{72}g + \frac{15}{63} = \underline{\frac{3}{9}(\frac{6}{8}g + \frac{5}{7})}$

7) $-\frac{9}{35}h + \frac{3}{20} = \underline{-\frac{3}{5}(\frac{3}{7}h - \frac{1}{4})}$

8) $-\frac{4}{10}i - \frac{4}{10} = \underline{-\frac{4}{10}(\frac{1}{1}i + \frac{1}{1})}$

9) $\frac{9}{48}j + \frac{12}{12} = \underline{\frac{3}{12}(\frac{3}{4}j + \frac{4}{1})}$

10) $-\frac{8}{54}k + \frac{4}{54} = \underline{-\frac{4}{54}(\frac{2}{1}k - \frac{1}{1})}$

Answers

1. $-\frac{3}{8}(\frac{2}{5}b - \frac{3}{7})$

2. $\frac{1}{8}(\frac{2}{4}c + \frac{1}{9})$

3. $\frac{3}{32}(\frac{3}{2}d + \frac{5}{1})$

4. $\frac{4}{15}(\frac{7}{3}e + \frac{6}{2})$

5. $-\frac{18}{9}(\frac{1}{7}f - \frac{1}{6})$

6. $\frac{3}{9}(\frac{6}{8}g + \frac{5}{7})$

7. $-\frac{3}{5}(\frac{3}{7}h - \frac{1}{4})$

8. $-\frac{4}{10}(\frac{1}{1}i + \frac{1}{1})$

9. $\frac{3}{12}(\frac{3}{4}j + \frac{4}{1})$

10. $-\frac{4}{54}(\frac{2}{1}k - \frac{1}{1})$