



Factoring Expressions

Name: _____

Factor each expression completely.

1) $-\frac{3}{12}b + \frac{3}{12} =$ _____

2) $-\frac{4}{24}c - \frac{8}{42} =$ _____

3) $-\frac{14}{27}d + \frac{8}{12} =$ _____

4) $-\frac{3}{30}e + \frac{6}{25} =$ _____

5) $-\frac{3}{81}f + \frac{6}{63} =$ _____

6) $-\frac{8}{42}g - \frac{12}{35} =$ _____

7) $\frac{8}{32}h + \frac{8}{48} =$ _____

8) $-\frac{4}{64}j - \frac{28}{32} =$ _____

9) $-\frac{4}{12}k + \frac{6}{9} =$ _____

10) $-\frac{4}{36}m - \frac{4}{63} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

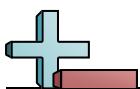
6. _____

7. _____

8. _____

9. _____

10. _____



Factoring Expressions

Name: **Answer Key**

Factor each expression completely.

1) $-\frac{3}{12}b + \frac{3}{12} = \underline{-\frac{3}{12}(\frac{1}{1}b - \frac{1}{1})}$

2) $-\frac{4}{24}c - \frac{8}{42} = \underline{-\frac{4}{6}(\frac{1}{4}c + \frac{2}{7})}$

3) $-\frac{14}{27}d + \frac{8}{12} = \underline{-\frac{2}{3}(\frac{7}{9}d - \frac{4}{4})}$

4) $-\frac{3}{30}e + \frac{6}{25} = \underline{-\frac{3}{5}(\frac{1}{6}e - \frac{2}{5})}$

5) $-\frac{3}{81}f + \frac{6}{63} = \underline{-\frac{3}{9}(\frac{1}{9}f - \frac{2}{7})}$

6) $-\frac{8}{42}g - \frac{12}{35} = \underline{-\frac{4}{7}(\frac{2}{6}g + \frac{3}{5})}$

7) $\frac{8}{32}h + \frac{8}{48} = \underline{\frac{8}{16}(\frac{1}{2}h + \frac{1}{3})}$

8) $-\frac{4}{64}j - \frac{28}{32} = \underline{-\frac{4}{32}(\frac{1}{2}j + \frac{7}{1})}$

9) $-\frac{4}{12}k + \frac{6}{9} = \underline{-\frac{2}{3}(\frac{2}{4}k - \frac{3}{3})}$

10) $-\frac{4}{36}m - \frac{4}{63} = \underline{-\frac{4}{9}(\frac{1}{4}m + \frac{1}{7})}$

Answers

1. $-\frac{3}{12}(\frac{1}{1}b - \frac{1}{1})$

2. $-\frac{4}{6}(\frac{1}{4}c + \frac{2}{7})$

3. $-\frac{2}{3}(\frac{7}{9}d - \frac{4}{4})$

4. $-\frac{3}{5}(\frac{1}{6}e - \frac{2}{5})$

5. $-\frac{3}{9}(\frac{1}{9}f - \frac{2}{7})$

6. $-\frac{4}{7}(\frac{2}{6}g + \frac{3}{5})$

7. $\frac{8}{16}(\frac{1}{2}h + \frac{1}{3})$

8. $-\frac{4}{32}(\frac{1}{2}j + \frac{7}{1})$

9. $-\frac{2}{3}(\frac{2}{4}k - \frac{3}{3})$

10. $-\frac{4}{9}(\frac{1}{4}m + \frac{1}{7})$



Factor each expression completely.

1) $\frac{16}{48}b + \frac{28}{48} =$ _____

2) $-\frac{2}{24}c - \frac{4}{40} =$ _____

3) $\frac{6}{63}d + \frac{3}{36} =$ _____

4) $\frac{8}{48}e + \frac{4}{32} =$ _____

5) $-\frac{2}{45}f - \frac{16}{20} =$ _____

6) $\frac{10}{64}g + \frac{12}{72} =$ _____

7) $\frac{3}{16}h + \frac{3}{24} =$ _____

8) $\frac{10}{36}j + \frac{8}{54} =$ _____

9) $-\frac{4}{25}k - \frac{2}{45} =$ _____

10) $\frac{4}{16}m + \frac{4}{32} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

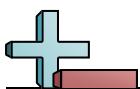
6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

1) $\frac{16}{48}b + \frac{28}{48} = \underline{\underline{\frac{4}{48}(\frac{4}{1}b + \frac{7}{1})}}$

2) $-\frac{2}{24}c - \frac{4}{40} = \underline{\underline{-\frac{2}{8}(\frac{1}{3}c + \frac{2}{5})}}$

3) $\frac{6}{63}d + \frac{3}{36} = \underline{\underline{\frac{3}{9}(\frac{2}{7}d + \frac{1}{4})}}$

4) $\frac{8}{48}e + \frac{4}{32} = \underline{\underline{\frac{4}{16}(\frac{2}{3}e + \frac{1}{2})}}$

5) $-\frac{2}{45}f - \frac{16}{20} = \underline{\underline{-\frac{2}{5}(\frac{1}{9}f + \frac{8}{4})}}$

6) $\frac{10}{64}g + \frac{12}{72} = \underline{\underline{\frac{2}{8}(\frac{5}{8}g + \frac{6}{9})}}$

7) $\frac{3}{16}h + \frac{3}{24} = \underline{\underline{\frac{3}{8}(\frac{1}{2}h + \frac{1}{3})}}$

8) $\frac{10}{36}j + \frac{8}{54} = \underline{\underline{\frac{2}{18}(\frac{5}{2}j + \frac{4}{3})}}$

9) $-\frac{4}{25}k - \frac{2}{45} = \underline{\underline{-\frac{2}{5}(\frac{2}{5}k + \frac{1}{9})}}$

10) $\frac{4}{16}m + \frac{4}{32} = \underline{\underline{\frac{4}{16}(\frac{1}{1}m + \frac{1}{2})}}$

Answers

1. $\frac{4}{48}(\frac{4}{1}b + \frac{7}{1})$

2. $-\frac{2}{8}(\frac{1}{3}c + \frac{2}{5})$

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

4. $\frac{4}{16}(\frac{2}{3}e + \frac{1}{2})$

5. $-\frac{2}{5}(\frac{1}{9}f + \frac{8}{4})$

6. $\frac{2}{8}(\frac{5}{8}g + \frac{6}{9})$

7. $\frac{3}{8}(\frac{1}{2}h + \frac{1}{3})$

8. $\frac{2}{18}(\frac{5}{2}j + \frac{4}{3})$

9. $-\frac{2}{5}(\frac{2}{5}k + \frac{1}{9})$

10. $\frac{4}{16}(\frac{1}{1}m + \frac{1}{2})$



Factor each expression completely.

1) $-\frac{3}{36}b - \frac{15}{8} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2) $-\frac{4}{40}c + \frac{12}{30} =$ _____

3) $-\frac{8}{42}d - \frac{12}{36} =$ _____

4) $\frac{2}{30}e + \frac{2}{20} =$ _____

5) $\frac{3}{56}f - \frac{12}{21} =$ _____

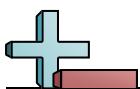
6) $-\frac{12}{20}g + \frac{9}{28} =$ _____

7) $\frac{14}{54}h + \frac{2}{30} =$ _____

8) $\frac{16}{42}j + \frac{4}{24} =$ _____

9) $-\frac{12}{36}k + \frac{12}{18} =$ _____

10) $-\frac{6}{28}m - \frac{3}{42} =$ _____



Factoring Expressions

Name: **Answer Key**

Factor each expression completely.

1) $-\frac{3}{36}b - \frac{15}{8} = \underline{-\frac{3}{4}(\frac{1}{9}b + \frac{5}{2})}$

2) $-\frac{4}{40}c + \frac{12}{30} = \underline{-\frac{4}{10}(\frac{1}{4}c - \frac{3}{3})}$

3) $-\frac{8}{42}d - \frac{12}{36} = \underline{-\frac{4}{6}(\frac{2}{7}d + \frac{3}{6})}$

4) $\frac{2}{30}e + \frac{2}{20} = \underline{\frac{2}{10}(\frac{1}{3}e + \frac{1}{2})}$

5) $\frac{3}{56}f - \frac{12}{21} = \underline{\frac{3}{7}(\frac{1}{8}f - \frac{4}{3})}$

6) $-\frac{12}{20}g + \frac{9}{28} = \underline{-\frac{3}{4}(\frac{4}{5}g - \frac{3}{7})}$

7) $\frac{14}{54}h + \frac{2}{30} = \underline{\frac{2}{6}(\frac{7}{9}h + \frac{1}{5})}$

8) $\frac{16}{42}j + \frac{4}{24} = \underline{\frac{4}{6}(\frac{4}{7}j + \frac{1}{4})}$

9) $-\frac{12}{36}k + \frac{12}{18} = \underline{-\frac{12}{18}(\frac{1}{2}k - \frac{1}{1})}$

10) $-\frac{6}{28}m - \frac{3}{42} = \underline{-\frac{3}{14}(\frac{2}{2}m + \frac{1}{3})}$

Answers

1. $-\frac{3}{4}(\frac{1}{9}b + \frac{5}{2})$

2. $-\frac{4}{10}(\frac{1}{4}c - \frac{3}{3})$

3. $-\frac{4}{6}(\frac{2}{7}d + \frac{3}{6})$

4. $\frac{2}{10}(\frac{1}{3}e + \frac{1}{2})$

5. $\frac{3}{7}(\frac{1}{8}f - \frac{4}{3})$

6. $-\frac{3}{4}(\frac{4}{5}g - \frac{3}{7})$

7. $\frac{2}{6}(\frac{7}{9}h + \frac{1}{5})$

8. $\frac{4}{6}(\frac{4}{7}j + \frac{1}{4})$

9. $-\frac{12}{18}(\frac{1}{2}k - \frac{1}{1})$

10. $-\frac{3}{14}(\frac{2}{2}m + \frac{1}{3})$



Factoring Expressions

Name: _____

Factor each expression completely.

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

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

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

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

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

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

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

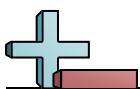
6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

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

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

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

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

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

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

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

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

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

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

Answers

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

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

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

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

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

6. $\frac{6}{27}(\frac{1}{1}g - \frac{1}{2})$

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

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

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

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



Factoring Expressions

Name: _____

Factor each expression completely.

1) $-\frac{16}{25}b - \frac{4}{10} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2) $\frac{8}{45}c - \frac{16}{18} =$ _____

3) $\frac{8}{21}d + \frac{8}{49} =$ _____

4) $-\frac{4}{15}e - \frac{2}{35} =$ _____

5) $\frac{2}{12}f - \frac{2}{32} =$ _____

6) $\frac{3}{18}g + \frac{3}{18} =$ _____

7) $-\frac{8}{36}h + \frac{12}{36} =$ _____

8) $\frac{28}{40}j + \frac{8}{25} =$ _____

9) $\frac{2}{42}k + \frac{6}{35} =$ _____

10) $\frac{2}{42}m - \frac{10}{18} =$ _____



Factor each expression completely.

1) $-\frac{16}{25}b - \frac{4}{10} = \underline{-\frac{4}{5}(\frac{4}{5}b + \frac{1}{2})}$

2) $\frac{8}{45}c - \frac{16}{18} = \underline{\frac{8}{9}(\frac{1}{5}c - \frac{2}{2})}$

3) $\frac{8}{21}d + \frac{8}{49} = \underline{\frac{8}{7}(\frac{1}{3}d + \frac{1}{7})}$

4) $-\frac{4}{15}e - \frac{2}{35} = \underline{-\frac{2}{5}(\frac{2}{3}e + \frac{1}{7})}$

5) $\frac{2}{12}f - \frac{2}{32} = \underline{\frac{2}{4}(\frac{1}{3}f - \frac{1}{8})}$

6) $\frac{3}{18}g + \frac{3}{18} = \underline{\frac{3}{18}(\frac{1}{1}g + \frac{1}{1})}$

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

8) $\frac{28}{40}j + \frac{8}{25} = \underline{\frac{4}{5}(\frac{7}{8}j + \frac{2}{5})}$

9) $\frac{2}{42}k + \frac{6}{35} = \underline{\frac{2}{7}(\frac{1}{6}k + \frac{3}{5})}$

10) $\frac{2}{42}m - \frac{10}{18} = \underline{\frac{2}{6}(\frac{1}{7}m - \frac{5}{3})}$

Answers

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

2. $\frac{8}{9}(\frac{1}{5}c - \frac{2}{2})$

3. $\frac{8}{7}(\frac{1}{3}d + \frac{1}{7})$

4. $-\frac{2}{5}(\frac{2}{3}e + \frac{1}{7})$

5. $\frac{2}{4}(\frac{1}{3}f - \frac{1}{8})$

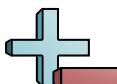
6. $\frac{3}{18}(\frac{1}{1}g + \frac{1}{1})$

7. $-\frac{4}{36}(\frac{2}{1}h - \frac{3}{1})$

8. $\frac{4}{5}(\frac{7}{8}j + \frac{2}{5})$

9. $\frac{2}{7}(\frac{1}{6}k + \frac{3}{5})$

10. $\frac{2}{6}(\frac{1}{7}m - \frac{5}{3})$



Factor each expression completely.

1) $-\frac{3}{10b} - \frac{3}{10} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2) $-\frac{3}{18c} - \frac{6}{42} =$ _____

3) $-\frac{24}{56d} + \frac{4}{24} =$ _____

4) $\frac{3}{20e} + \frac{6}{45} =$ _____

5) $-\frac{2}{18f} + \frac{2}{42} =$ _____

6) $\frac{8}{56g} - \frac{28}{14} =$ _____

7) $-\frac{2}{9h} - \frac{4}{27} =$ _____

8) $-\frac{4}{20j} - \frac{2}{10} =$ _____

9) $-\frac{12}{54k} + \frac{16}{36} =$ _____

10) $\frac{16}{56m} - \frac{20}{72} =$ _____



Factor each expression completely.

1) $-\frac{3}{10}b - \frac{3}{10} = \underline{-\frac{3}{10}(\frac{1}{1}b + \frac{1}{1})}$

2) $-\frac{3}{18}c - \frac{6}{42} = \underline{-\frac{3}{6}(\frac{1}{3}c + \frac{2}{7})}$

3) $-\frac{24}{56}d + \frac{4}{24} = \underline{-\frac{4}{8}(\frac{6}{7}d - \frac{1}{3})}$

4) $\frac{3}{20}e + \frac{6}{45} = \underline{\frac{3}{5}(\frac{1}{4}e + \frac{2}{9})}$

5) $-\frac{2}{18}f + \frac{2}{42} = \underline{-\frac{2}{6}(\frac{1}{3}f - \frac{1}{7})}$

6) $\frac{8}{56}g - \frac{28}{14} = \underline{\frac{4}{14}(\frac{2}{4}g - \frac{7}{1})}$

7) $-\frac{2}{9}h - \frac{4}{27} = \underline{-\frac{2}{9}(\frac{1}{1}h + \frac{2}{3})}$

8) $-\frac{4}{20}j - \frac{2}{10} = \underline{-\frac{2}{10}(\frac{2}{2}j + \frac{1}{1})}$

9) $-\frac{12}{54}k + \frac{16}{36} = \underline{-\frac{4}{18}(\frac{3}{3}k - \frac{4}{2})}$

10) $\frac{16}{56}m - \frac{20}{72} = \underline{\frac{4}{8}(\frac{4}{7}m - \frac{5}{9})}$

Answers

1. $-\frac{3}{10}(\frac{1}{1}b + \frac{1}{1})$

2. $-\frac{3}{6}(\frac{1}{3}c + \frac{2}{7})$

3. $-\frac{4}{8}(\frac{6}{7}d - \frac{1}{3})$

4. $\frac{3}{5}(\frac{1}{4}e + \frac{2}{9})$

5. $-\frac{2}{6}(\frac{1}{3}f - \frac{1}{7})$

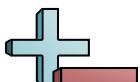
6. $\frac{4}{14}(\frac{2}{4}g - \frac{7}{1})$

7. $-\frac{2}{9}(\frac{1}{1}h + \frac{2}{3})$

8. $-\frac{2}{10}(\frac{2}{2}j + \frac{1}{1})$

9. $-\frac{4}{18}(\frac{3}{3}k - \frac{4}{2})$

10. $\frac{4}{8}(\frac{4}{7}m - \frac{5}{9})$



Factor each expression completely.

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

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

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

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

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

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

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

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

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

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



Factor each expression completely.

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

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

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

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

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

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

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

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

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

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

Answers

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

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

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

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

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

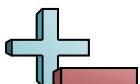
6. $-\frac{6}{4}(\frac{1}{7}g - \frac{2}{9})$

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

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

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

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



Factoring Expressions

Name: _____

Factor each expression completely.

1) $\frac{4}{24} b - \frac{2}{42} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2) $-\frac{4}{12} c - \frac{4}{16} =$ _____

3) $\frac{24}{64} d - \frac{20}{40} =$ _____

4) $\frac{14}{36} e + \frac{10}{36} =$ _____

5) $\frac{4}{24} f + \frac{4}{24} =$ _____

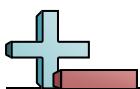
6) $\frac{2}{15} g - \frac{4}{30} =$ _____

7) $-\frac{4}{25} h - \frac{8}{35} =$ _____

8) $\frac{6}{28} j + \frac{6}{28} =$ _____

9) $\frac{2}{12} k - \frac{2}{54} =$ _____

10) $\frac{4}{27} m - \frac{2}{63} =$ _____



Factor each expression completely.

1) $\frac{4}{24}b - \frac{2}{42} = \underline{\underline{\frac{2}{6}(\frac{1}{4}b - \frac{1}{7})}}$

2) $-\frac{4}{12}c - \frac{4}{16} = \underline{\underline{-\frac{4}{4}(\frac{1}{3}c + \frac{1}{4})}}$

3) $\frac{24}{64}d - \frac{20}{40} = \underline{\underline{\frac{4}{8}(\frac{3}{8}d - \frac{5}{5})}}$

4) $\frac{14}{36}e + \frac{10}{36} = \underline{\underline{\frac{2}{36}(\frac{7}{1}e + \frac{5}{1})}}$

5) $\frac{4}{24}f + \frac{4}{24} = \underline{\underline{\frac{4}{24}(\frac{1}{1}f + \frac{1}{1})}}$

6) $\frac{2}{15}g - \frac{4}{30} = \underline{\underline{\frac{2}{15}(\frac{1}{1}g - \frac{2}{2})}}$

7) $-\frac{4}{25}h - \frac{8}{35} = \underline{\underline{-\frac{4}{5}(\frac{1}{5}h + \frac{2}{7})}}$

8) $\frac{6}{28}j + \frac{6}{28} = \underline{\underline{\frac{6}{28}(\frac{1}{1}j + \frac{1}{1})}}$

9) $\frac{2}{12}k - \frac{2}{54} = \underline{\underline{\frac{2}{6}(\frac{1}{2}k - \frac{1}{9})}}$

10) $\frac{4}{27}m - \frac{2}{63} = \underline{\underline{\frac{2}{9}(\frac{2}{3}m - \frac{1}{7})}}$

Answers

1. $\frac{2}{6}(\frac{1}{4}b - \frac{1}{7})$

2. $-\frac{4}{4}(\frac{1}{3}c + \frac{1}{4})$

3. $\frac{4}{8}(\frac{3}{8}d - \frac{5}{5})$

4. $\frac{2}{36}(\frac{7}{1}e + \frac{5}{1})$

5. $\frac{4}{24}(\frac{1}{1}f + \frac{1}{1})$

6. $\frac{2}{15}(\frac{1}{1}g - \frac{2}{2})$

7. $-\frac{4}{5}(\frac{1}{5}h + \frac{2}{7})$

8. $\frac{6}{28}(\frac{1}{1}j + \frac{1}{1})$

9. $\frac{2}{6}(\frac{1}{2}k - \frac{1}{9})$

10. $\frac{2}{9}(\frac{2}{3}m - \frac{1}{7})$



Factoring Expressions

Name: _____

Factor each expression completely.

1) $\frac{3}{30} b - \frac{3}{36} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

2) $\frac{3}{12} c + \frac{3}{42} =$ _____

3) $-\frac{3}{36} d + \frac{3}{72} =$ _____

4) $-\frac{12}{56} e - \frac{4}{48} =$ _____

5) $\frac{8}{42} f - \frac{10}{56} =$ _____

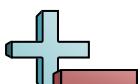
6) $\frac{15}{54} g + \frac{15}{45} =$ _____

7) $-\frac{16}{42} h - \frac{20}{24} =$ _____

8) $\frac{4}{15} j - \frac{8}{30} =$ _____

9) $-\frac{8}{40} k - \frac{2}{24} =$ _____

10) $\frac{4}{21} m - \frac{6}{6} =$ _____



Factor each expression completely.

1) $\frac{3}{30}b - \frac{3}{36} = \underline{\underline{\frac{3}{6}(\frac{1}{5}b - \frac{1}{6})}}$

2) $\frac{3}{12}c + \frac{3}{42} = \underline{\underline{\frac{3}{6}(\frac{1}{2}c + \frac{1}{7})}}$

3) $-\frac{3}{36}d + \frac{3}{72} = \underline{\underline{-\frac{3}{36}(\frac{1}{1}d - \frac{1}{2})}}$

4) $-\frac{12}{56}e - \frac{4}{48} = \underline{\underline{-\frac{4}{8}(\frac{3}{7}e + \frac{1}{6})}}$

5) $\frac{8}{42}f - \frac{10}{56} = \underline{\underline{\frac{2}{14}(\frac{4}{3}f - \frac{5}{4})}}$

6) $\frac{15}{54}g + \frac{15}{45} = \underline{\underline{\frac{15}{9}(\frac{1}{6}g + \frac{1}{5})}}$

7) $-\frac{16}{42}h - \frac{20}{24} = \underline{\underline{-\frac{4}{6}(\frac{4}{7}h + \frac{5}{4})}}$

8) $\frac{4}{15}j - \frac{8}{30} = \underline{\underline{\frac{4}{15}(\frac{1}{1}j - \frac{2}{2})}}$

9) $-\frac{8}{40}k - \frac{2}{24} = \underline{\underline{-\frac{2}{8}(\frac{4}{5}k + \frac{1}{3})}}$

10) $\frac{4}{21}m - \frac{6}{6} = \underline{\underline{\frac{2}{3}(\frac{2}{7}m - \frac{3}{2})}}$

Answers

1. $\frac{3}{6}(\frac{1}{5}b - \frac{1}{6})$

2. $\frac{3}{6}(\frac{1}{2}c + \frac{1}{7})$

3. $-\frac{3}{36}(\frac{1}{1}d - \frac{1}{2})$

4. $-\frac{4}{8}(\frac{3}{7}e + \frac{1}{6})$

5. $\frac{2}{14}(\frac{4}{3}f - \frac{5}{4})$

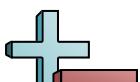
6. $\frac{15}{9}(\frac{1}{6}g + \frac{1}{5})$

7. $-\frac{4}{6}(\frac{4}{7}h + \frac{5}{4})$

8. $\frac{4}{15}(\frac{1}{1}j - \frac{2}{2})$

9. $-\frac{2}{8}(\frac{4}{5}k + \frac{1}{3})$

10. $\frac{2}{3}(\frac{2}{7}m - \frac{3}{2})$



Factor each expression completely.

1) $-\frac{8}{42b} + \frac{24}{18} =$ _____

2) $\frac{4}{24c} + \frac{2}{42} =$ _____

3) $-\frac{8}{24d} + \frac{8}{24} =$ _____

4) $\frac{4}{28e} + \frac{2}{56} =$ _____

5) $-\frac{6}{20f} - \frac{6}{30} =$ _____

6) $-\frac{6}{20g} + \frac{9}{20} =$ _____

7) $-\frac{3}{18h} + \frac{3}{18} =$ _____

8) $\frac{12}{48j} - \frac{10}{48} =$ _____

9) $\frac{3}{36k} + \frac{9}{18} =$ _____

10) $\frac{2}{12m} - \frac{2}{12} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

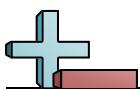
6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

1) $-\frac{8}{42}b + \frac{24}{18} = \underline{-\frac{8}{6}(\frac{1}{7}b - \frac{3}{3})}$

2) $\frac{4}{24}c + \frac{2}{42} = \underline{\frac{2}{6}(\frac{2}{4}c + \frac{1}{7})}$

3) $-\frac{8}{24}d + \frac{8}{24} = \underline{-\frac{8}{24}(\frac{1}{1}d - \frac{1}{1})}$

4) $\frac{4}{28}e + \frac{2}{56} = \underline{\frac{2}{28}(\frac{2}{1}e + \frac{1}{2})}$

5) $-\frac{6}{20}f - \frac{6}{30} = \underline{-\frac{6}{10}(\frac{1}{2}f + \frac{1}{3})}$

6) $-\frac{6}{20}g + \frac{9}{20} = \underline{-\frac{3}{20}(\frac{2}{1}g - \frac{3}{1})}$

7) $-\frac{3}{18}h + \frac{3}{18} = \underline{-\frac{3}{18}(\frac{1}{1}h - \frac{1}{1})}$

8) $\frac{12}{48}j - \frac{10}{48} = \underline{\frac{2}{48}(\frac{6}{1}j - \frac{5}{1})}$

9) $\frac{3}{36}k + \frac{9}{18} = \underline{\frac{3}{18}(\frac{1}{2}k + \frac{3}{1})}$

10) $\frac{2}{12}m - \frac{2}{12} = \underline{\frac{2}{12}(\frac{1}{1}m - \frac{1}{1})}$

Answers

1. $-\frac{8}{6}(\frac{1}{7}b - \frac{3}{3})$

2. $\frac{2}{6}(\frac{2}{4}c + \frac{1}{7})$

3. $-\frac{8}{24}(\frac{1}{1}d - \frac{1}{1})$

4. $\frac{2}{28}(\frac{2}{1}e + \frac{1}{2})$

5. $-\frac{6}{10}(\frac{1}{2}f + \frac{1}{3})$

6. $-\frac{3}{20}(\frac{2}{1}g - \frac{3}{1})$

7. $-\frac{3}{18}(\frac{1}{1}h - \frac{1}{1})$

8. $\frac{2}{48}(\frac{6}{1}j - \frac{5}{1})$

9. $\frac{3}{18}(\frac{1}{2}k + \frac{3}{1})$

10. $\frac{2}{12}(\frac{1}{1}m - \frac{1}{1})$