



Factor each expression completely.

1) $\frac{6}{48}B - \frac{12}{30} =$ _____

2) $\frac{6}{25}C - \frac{8}{20} =$ _____

3) $\frac{12}{48}D - \frac{20}{16} =$ _____

4) $\frac{6}{35}E - \frac{2}{28} =$ _____

5) $-\frac{4}{36}F - \frac{12}{54} =$ _____

6) $-\frac{12}{40}G - \frac{12}{30} =$ _____

7) $-\frac{3}{15}H - \frac{6}{25} =$ _____

8) $\frac{8}{40}I - \frac{12}{32} =$ _____

9) $-\frac{3}{12}J + \frac{3}{16} =$ _____

10) $-\frac{3}{16}K - \frac{3}{16} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{6}{48}B - \frac{12}{30} = \underline{\frac{6}{6}(\frac{1}{8}B - \frac{2}{5})}$$

$$2) \frac{6}{25}C - \frac{8}{20} = \underline{\frac{2}{5}(\frac{3}{5}C - \frac{4}{4})}$$

$$3) \frac{12}{48}D - \frac{20}{16} = \underline{\frac{4}{16}(\frac{3}{3}D - \frac{5}{1})}$$

$$4) \frac{6}{35}E - \frac{2}{28} = \underline{\frac{2}{7}(\frac{3}{5}E - \frac{1}{4})}$$

$$5) -\frac{4}{36}F - \frac{12}{54} = \underline{-\frac{4}{18}(\frac{1}{2}F + \frac{3}{3})}$$

$$6) -\frac{12}{40}G - \frac{12}{30} = \underline{-\frac{12}{10}(\frac{1}{4}G + \frac{1}{3})}$$

$$7) -\frac{3}{15}H - \frac{6}{25} = \underline{-\frac{3}{5}(\frac{1}{3}H + \frac{2}{5})}$$

$$8) \frac{8}{40}I - \frac{12}{32} = \underline{\frac{4}{8}(\frac{2}{5}I - \frac{3}{4})}$$

$$9) -\frac{3}{12}J + \frac{3}{16} = \underline{-\frac{3}{4}(\frac{1}{3}J - \frac{1}{4})}$$

$$10) -\frac{3}{16}K - \frac{3}{16} = \underline{-\frac{3}{16}(\frac{1}{1}K + \frac{1}{1})}$$

Answers

1. $\underline{\frac{6}{6}(\frac{1}{8}B - \frac{2}{5})}$

2. $\underline{\frac{2}{5}(\frac{3}{5}C - \frac{4}{4})}$

3. $\underline{\frac{4}{16}(\frac{3}{3}D - \frac{5}{1})}$

4. $\underline{\frac{2}{7}(\frac{3}{5}E - \frac{1}{4})}$

5. $\underline{-\frac{4}{18}(\frac{1}{2}F + \frac{3}{3})}$

6. $\underline{-\frac{12}{10}(\frac{1}{4}G + \frac{1}{3})}$

7. $\underline{-\frac{3}{5}(\frac{1}{3}H + \frac{2}{5})}$

8. $\underline{\frac{4}{8}(\frac{2}{5}I - \frac{3}{4})}$

9. $\underline{-\frac{3}{4}(\frac{1}{3}J - \frac{1}{4})}$

10. $\underline{-\frac{3}{16}(\frac{1}{1}K + \frac{1}{1})}$



Factor each expression completely.

1) $\frac{12}{45}B - \frac{8}{15} =$ _____

2) $\frac{4}{24}C - \frac{4}{64} =$ _____

3) $\frac{4}{24}D + \frac{2}{40} =$ _____

4) $-\frac{3}{12}E - \frac{3}{24} =$ _____

5) $-\frac{2}{30}F - \frac{8}{54} =$ _____

6) $-\frac{16}{64}G - \frac{4}{32} =$ _____

7) $\frac{6}{56}H - \frac{12}{14} =$ _____

8) $\frac{10}{56}I - \frac{14}{21} =$ _____

9) $\frac{6}{28}J + \frac{3}{56} =$ _____

10) $-\frac{6}{35}K - \frac{6}{21} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{12}{45}B - \frac{8}{15} = \frac{4}{15}(\frac{3}{3}B - \frac{2}{1})$$

$$2) \frac{4}{24}C - \frac{4}{64} = \frac{4}{8}(\frac{1}{3}C - \frac{1}{8})$$

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

$$4) -\frac{3}{12}E - \frac{3}{24} = \frac{-3}{12}(\frac{1}{1}E + \frac{1}{2})$$

$$5) -\frac{2}{30}F - \frac{8}{54} = \frac{-2}{6}(\frac{1}{5}F + \frac{4}{9})$$

$$6) -\frac{16}{64}G - \frac{4}{32} = \frac{-4}{32}(\frac{4}{2}G + \frac{1}{1})$$

$$7) \frac{6}{56}H - \frac{12}{14} = \frac{6}{14}(\frac{1}{4}H - \frac{2}{1})$$

$$8) \frac{10}{56}I - \frac{14}{21} = \frac{2}{7}(\frac{5}{8}I - \frac{7}{3})$$

$$9) \frac{6}{28}J + \frac{3}{56} = \frac{3}{28}(\frac{2}{1}J + \frac{1}{2})$$

$$10) -\frac{6}{35}K - \frac{6}{21} = \frac{-6}{7}(\frac{1}{5}K + \frac{1}{3})$$

Answers

1. $\frac{4}{15}(\frac{3}{3}B - \frac{2}{1})$

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

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

4. $\frac{-3}{12}(\frac{1}{1}E + \frac{1}{2})$

5. $\frac{-2}{6}(\frac{1}{5}F + \frac{4}{9})$

6. $\frac{-4}{32}(\frac{4}{2}G + \frac{1}{1})$

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

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

9. $\frac{3}{28}(\frac{2}{1}J + \frac{1}{2})$

10. $\frac{-6}{7}(\frac{1}{5}K + \frac{1}{3})$



Factor each expression completely.

1) $\frac{20}{40}B - \frac{16}{20} =$ _____

2) $-\frac{8}{15}C - \frac{4}{15} =$ _____

3) $\frac{12}{48}D + \frac{9}{16} =$ _____

4) $-\frac{12}{40}E - \frac{14}{10} =$ _____

5) $-\frac{15}{56}F + \frac{15}{56} =$ _____

6) $\frac{6}{56}G + \frac{2}{40} =$ _____

7) $\frac{21}{54}H - \frac{3}{18} =$ _____

8) $\frac{4}{40}I + \frac{28}{35} =$ _____

9) $-\frac{9}{72}J - \frac{18}{72} =$ _____

10) $\frac{16}{36}K + \frac{6}{12} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{20}{40}B - \frac{16}{20} = \underline{\frac{4}{20}(\frac{5}{2}B - \frac{4}{1})}$$

$$2) -\frac{8}{15}C - \frac{4}{15} = \underline{-\frac{4}{15}(\frac{2}{1}C + \frac{1}{1})}$$

$$3) \frac{12}{48}D + \frac{9}{16} = \underline{\frac{3}{16}(\frac{4}{3}D + \frac{3}{1})}$$

$$4) -\frac{12}{40}E - \frac{14}{10} = \underline{-\frac{2}{10}(\frac{6}{4}E + \frac{7}{1})}$$

$$5) -\frac{15}{56}F + \frac{15}{56} = \underline{-\frac{15}{56}(\frac{1}{1}F - \frac{1}{1})}$$

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

$$7) \frac{21}{54}H - \frac{3}{18} = \underline{\frac{3}{18}(\frac{7}{3}H - \frac{1}{1})}$$

$$8) \frac{4}{40}I + \frac{28}{35} = \underline{\frac{4}{5}(\frac{1}{8}I + \frac{7}{7})}$$

$$9) -\frac{9}{72}J - \frac{18}{72} = \underline{-\frac{9}{72}(\frac{1}{1}J + \frac{2}{1})}$$

$$10) \frac{16}{36}K + \frac{6}{12} = \underline{\frac{2}{12}(\frac{8}{3}K + \frac{3}{1})}$$

Answers

1. $\underline{\frac{4}{20}(\frac{5}{2}B - \frac{4}{1})}$

2. $\underline{-\frac{4}{15}(\frac{2}{1}C + \frac{1}{1})}$

3. $\underline{\frac{3}{16}(\frac{4}{3}D + \frac{3}{1})}$

4. $\underline{-\frac{2}{10}(\frac{6}{4}E + \frac{7}{1})}$

5. $\underline{-\frac{15}{56}(\frac{1}{1}F - \frac{1}{1})}$

6. $\underline{\frac{2}{8}(\frac{3}{7}G + \frac{1}{5})}$

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

8. $\underline{\frac{4}{5}(\frac{1}{8}I + \frac{7}{7})}$

9. $\underline{-\frac{9}{72}(\frac{1}{1}J + \frac{2}{1})}$

10. $\underline{\frac{2}{12}(\frac{8}{3}K + \frac{3}{1})}$



Factor each expression completely.

1) $\frac{6}{72}B - \frac{3}{45} =$ _____

2) $\frac{12}{72}C + \frac{10}{36} =$ _____

3) $-\frac{2}{18}D - \frac{2}{18} =$ _____

4) $-\frac{14}{72}E - \frac{8}{64} =$ _____

5) $-\frac{9}{24}F - \frac{3}{48} =$ _____

6) $\frac{2}{12}G + \frac{2}{48} =$ _____

7) $\frac{4}{21}H + \frac{4}{56} =$ _____

8) $-\frac{12}{54}I + \frac{15}{24} =$ _____

9) $-\frac{4}{14}J + \frac{4}{14} =$ _____

10) $\frac{10}{21}K + \frac{12}{12} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{6}{72}B - \frac{3}{45} = \underline{\frac{3}{9}(\frac{2}{8}B - \frac{1}{5})}$$

$$2) \frac{12}{72}C + \frac{10}{36} = \underline{\frac{2}{36}(\frac{6}{2}C + \frac{5}{1})}$$

$$3) -\frac{2}{18}D - \frac{2}{18} = \underline{-\frac{2}{18}(\frac{1}{1}D + \frac{1}{1})}$$

$$4) -\frac{14}{72}E - \frac{8}{64} = \underline{-\frac{2}{8}(\frac{7}{9}E + \frac{4}{8})}$$

$$5) -\frac{9}{24}F - \frac{3}{48} = \underline{-\frac{3}{24}(\frac{3}{1}F + \frac{1}{2})}$$

$$6) \frac{2}{12}G + \frac{2}{48} = \underline{\frac{2}{12}(\frac{1}{1}G + \frac{1}{4})}$$

$$7) \frac{4}{21}H + \frac{4}{56} = \underline{\frac{4}{7}(\frac{1}{3}H + \frac{1}{8})}$$

$$8) -\frac{12}{54}I + \frac{15}{24} = \underline{-\frac{3}{6}(\frac{4}{9}I - \frac{5}{4})}$$

$$9) -\frac{4}{14}J + \frac{4}{14} = \underline{-\frac{4}{14}(\frac{1}{1}J - \frac{1}{1})}$$

$$10) \frac{10}{21}K + \frac{12}{12} = \underline{\frac{2}{3}(\frac{5}{7}K + \frac{6}{4})}$$

Answers

1. $\underline{\frac{3}{9}(\frac{2}{8}B - \frac{1}{5})}$

2. $\underline{\frac{2}{36}(\frac{6}{2}C + \frac{5}{1})}$

3. $\underline{-\frac{2}{18}(\frac{1}{1}D + \frac{1}{1})}$

4. $\underline{-\frac{2}{8}(\frac{7}{9}E + \frac{4}{8})}$

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

6. $\underline{\frac{2}{12}(\frac{1}{1}G + \frac{1}{4})}$

7. $\underline{\frac{4}{7}(\frac{1}{3}H + \frac{1}{8})}$

8. $\underline{-\frac{3}{6}(\frac{4}{9}I - \frac{5}{4})}$

9. $\underline{-\frac{4}{14}(\frac{1}{1}J - \frac{1}{1})}$

10. $\underline{\frac{2}{3}(\frac{5}{7}K + \frac{6}{4})}$



Factor each expression completely.

1) $-\frac{12}{63}B + \frac{8}{63} =$ _____

2) $\frac{8}{45}C - \frac{12}{30} =$ _____

3) $\frac{6}{42}D + \frac{6}{49} =$ _____

4) $\frac{10}{42}E - \frac{8}{48} =$ _____

5) $\frac{3}{8}F + \frac{3}{24} =$ _____

6) $-\frac{12}{56}G + \frac{4}{56} =$ _____

7) $-\frac{6}{20}H + \frac{2}{8} =$ _____

8) $-\frac{8}{30}I + \frac{12}{42} =$ _____

9) $\frac{2}{10}J + \frac{2}{10} =$ _____

10) $\frac{9}{28}K + \frac{6}{35} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) -\frac{12}{63}B + \frac{8}{63} = \underline{-\frac{4}{63}(\frac{3}{1}B - \frac{2}{1})}$$

$$2) \frac{8}{45}C - \frac{12}{30} = \underline{\frac{4}{15}(\frac{2}{3}C - \frac{3}{2})}$$

$$3) \frac{6}{42}D + \frac{6}{49} = \underline{\frac{6}{7}(\frac{1}{6}D + \frac{1}{7})}$$

$$4) \frac{10}{42}E - \frac{8}{48} = \underline{\frac{2}{6}(\frac{5}{7}E - \frac{4}{8})}$$

$$5) \frac{3}{8}F + \frac{3}{24} = \underline{\frac{3}{8}(\frac{1}{1}F + \frac{1}{3})}$$

$$6) -\frac{12}{56}G + \frac{4}{56} = \underline{-\frac{4}{56}(\frac{3}{1}G - \frac{1}{1})}$$

$$7) -\frac{6}{20}H + \frac{2}{8} = \underline{-\frac{2}{4}(\frac{3}{5}H - \frac{1}{2})}$$

$$8) -\frac{8}{30}I + \frac{12}{42} = \underline{-\frac{4}{6}(\frac{2}{5}I - \frac{3}{7})}$$

$$9) \frac{2}{10}J + \frac{2}{10} = \underline{\frac{2}{10}(\frac{1}{1}J + \frac{1}{1})}$$

$$10) \frac{9}{28}K + \frac{6}{35} = \underline{\frac{3}{7}(\frac{3}{4}K + \frac{2}{5})}$$

Answers

1. $\underline{-\frac{4}{63}(\frac{3}{1}B - \frac{2}{1})}$

2. $\underline{\frac{4}{15}(\frac{2}{3}C - \frac{3}{2})}$

3. $\underline{\frac{6}{7}(\frac{1}{6}D + \frac{1}{7})}$

4. $\underline{\frac{2}{6}(\frac{5}{7}E - \frac{4}{8})}$

5. $\underline{\frac{3}{8}(\frac{1}{1}F + \frac{1}{3})}$

6. $\underline{-\frac{4}{56}(\frac{3}{1}G - \frac{1}{1})}$

7. $\underline{-\frac{2}{4}(\frac{3}{5}H - \frac{1}{2})}$

8. $\underline{-\frac{4}{6}(\frac{2}{5}I - \frac{3}{7})}$

9. $\underline{\frac{2}{10}(\frac{1}{1}J + \frac{1}{1})}$

10. $\underline{\frac{3}{7}(\frac{3}{4}K + \frac{2}{5})}$



Factor each expression completely.

1) $\frac{3}{14}B + \frac{3}{35} =$ _____

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

3) $\frac{2}{25}D - \frac{8}{40} =$ _____

4) $\frac{2}{32}E - \frac{4}{56} =$ _____

5) $\frac{16}{27}F + \frac{16}{15} =$ _____

6) $-\frac{4}{18}G - \frac{2}{54} =$ _____

7) $-\frac{12}{35}H + \frac{8}{14} =$ _____

8) $-\frac{16}{40}I - \frac{8}{56} =$ _____

9) $\frac{6}{20}J - \frac{9}{16} =$ _____

10) $-\frac{12}{35}K + \frac{16}{20} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{3}{14}B + \frac{3}{35} = \underline{\frac{3}{7}(\frac{1}{2}B + \frac{1}{5})}$$

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

$$3) \frac{2}{25}D - \frac{8}{40} = \underline{\frac{2}{5}(\frac{1}{5}D - \frac{4}{8})}$$

$$4) \frac{2}{32}E - \frac{4}{56} = \underline{\frac{2}{8}(\frac{1}{4}E - \frac{2}{7})}$$

$$5) \frac{16}{27}F + \frac{16}{15} = \underline{\frac{16}{3}(\frac{1}{9}F + \frac{1}{5})}$$

$$6) -\frac{4}{18}G - \frac{2}{54} = \underline{-\frac{2}{18}(\frac{2}{1}G + \frac{1}{3})}$$

$$7) -\frac{12}{35}H + \frac{8}{14} = \underline{-\frac{4}{7}(\frac{3}{5}H - \frac{2}{2})}$$

$$8) -\frac{16}{40}I - \frac{8}{56} = \underline{-\frac{8}{8}(\frac{2}{5}I + \frac{1}{7})}$$

$$9) \frac{6}{20}J - \frac{9}{16} = \underline{\frac{3}{4}(\frac{2}{5}J - \frac{3}{4})}$$

$$10) -\frac{12}{35}K + \frac{16}{20} = \underline{-\frac{4}{5}(\frac{3}{7}K - \frac{4}{4})}$$

Answers

1. $\underline{\frac{3}{7}(\frac{1}{2}B + \frac{1}{5})}$

2. $\underline{-\frac{4}{10}(\frac{1}{2}C - \frac{2}{1})}$

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

4. $\underline{\frac{2}{8}(\frac{1}{4}E - \frac{2}{7})}$

5. $\underline{\frac{16}{3}(\frac{1}{9}F + \frac{1}{5})}$

6. $\underline{-\frac{2}{18}(\frac{2}{1}G + \frac{1}{3})}$

7. $\underline{-\frac{4}{7}(\frac{3}{5}H - \frac{2}{2})}$

8. $\underline{-\frac{8}{8}(\frac{2}{5}I + \frac{1}{7})}$

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

10. $\underline{-\frac{4}{5}(\frac{3}{7}K - \frac{4}{4})}$



Factor each expression completely.

1) $-\frac{9}{25}B - \frac{3}{20} =$ _____

2) $\frac{8}{42}C + \frac{2}{42} =$ _____

3) $-\frac{12}{72}D + \frac{14}{18} =$ _____

4) $-\frac{2}{45}E + \frac{14}{30} =$ _____

5) $\frac{14}{36}F - \frac{12}{28} =$ _____

6) $-\frac{20}{72}G - \frac{20}{64} =$ _____

7) $\frac{2}{12}H + \frac{2}{48} =$ _____

8) $\frac{15}{56}I + \frac{3}{32} =$ _____

9) $\frac{6}{48}J - \frac{9}{16} =$ _____

10) $-\frac{3}{32}K - \frac{3}{32} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \quad -\frac{9}{25}B - \frac{3}{20} = \underline{-\frac{3}{5}(\frac{3}{5}B + \frac{1}{4})}$$

$$2) \quad \frac{8}{42}C + \frac{2}{42} = \underline{\frac{2}{42}(\frac{4}{1}C + \frac{1}{1})}$$

$$3) \quad -\frac{12}{72}D + \frac{14}{18} = \underline{-\frac{2}{18}(\frac{6}{4}D - \frac{7}{1})}$$

$$4) \quad -\frac{2}{45}E + \frac{14}{30} = \underline{-\frac{2}{15}(\frac{1}{3}E - \frac{7}{2})}$$

$$5) \quad \frac{14}{36}F - \frac{12}{28} = \underline{\frac{2}{4}(\frac{7}{9}F - \frac{6}{7})}$$

$$6) \quad -\frac{20}{72}G - \frac{20}{64} = \underline{-\frac{20}{8}(\frac{1}{9}G + \frac{1}{8})}$$

$$7) \quad \frac{2}{12}H + \frac{2}{48} = \underline{\frac{2}{12}(\frac{1}{1}H + \frac{1}{4})}$$

$$8) \quad \frac{15}{56}I + \frac{3}{32} = \underline{\frac{3}{8}(\frac{5}{7}I + \frac{1}{4})}$$

$$9) \quad \frac{6}{48}J - \frac{9}{16} = \underline{\frac{3}{16}(\frac{2}{3}J - \frac{3}{1})}$$

$$10) \quad -\frac{3}{32}K - \frac{3}{32} = \underline{-\frac{3}{32}(\frac{1}{1}K + \frac{1}{1})}$$

Answers

1. $\underline{-\frac{3}{5}(\frac{3}{5}B + \frac{1}{4})}$

2. $\underline{\frac{2}{42}(\frac{4}{1}C + \frac{1}{1})}$

3. $\underline{-\frac{2}{18}(\frac{6}{4}D - \frac{7}{1})}$

4. $\underline{-\frac{2}{15}(\frac{1}{3}E - \frac{7}{2})}$

5. $\underline{\frac{2}{4}(\frac{7}{9}F - \frac{6}{7})}$

6. $\underline{-\frac{20}{8}(\frac{1}{9}G + \frac{1}{8})}$

7. $\underline{\frac{2}{12}(\frac{1}{1}H + \frac{1}{4})}$

8. $\underline{\frac{3}{8}(\frac{5}{7}I + \frac{1}{4})}$

9. $\underline{\frac{3}{16}(\frac{2}{3}J - \frac{3}{1})}$

10. $\underline{-\frac{3}{32}(\frac{1}{1}K + \frac{1}{1})}$



Factor each expression completely.

1) $-\frac{4}{18}B + \frac{4}{54} =$ _____

2) $-\frac{12}{24}C - \frac{12}{12} =$ _____

3) $\frac{4}{42}D + \frac{8}{28} =$ _____

4) $-\frac{8}{36}E - \frac{12}{36} =$ _____

5) $-\frac{8}{32}F + \frac{12}{48} =$ _____

6) $-\frac{3}{16}G + \frac{3}{56} =$ _____

7) $\frac{20}{30}H + \frac{12}{45} =$ _____

8) $\frac{12}{36}I + \frac{16}{20} =$ _____

9) $-\frac{6}{32}J + \frac{3}{32} =$ _____

10) $-\frac{4}{21}K + \frac{8}{35} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) -\frac{4}{18}B + \frac{4}{54} = \underline{-\frac{4}{18}(\frac{1}{1}B - \frac{1}{3})}$$

$$2) -\frac{12}{24}C - \frac{12}{12} = \underline{-\frac{12}{12}(\frac{1}{2}C + \frac{1}{1})}$$

$$3) \frac{4}{42}D + \frac{8}{28} = \underline{\frac{4}{14}(\frac{1}{3}D + \frac{2}{2})}$$

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

$$5) -\frac{8}{32}F + \frac{12}{48} = \underline{-\frac{4}{16}(\frac{2}{2}F - \frac{3}{3})}$$

$$6) -\frac{3}{16}G + \frac{3}{56} = \underline{-\frac{3}{8}(\frac{1}{2}G - \frac{1}{7})}$$

$$7) \frac{20}{30}H + \frac{12}{45} = \underline{\frac{4}{15}(\frac{5}{2}H + \frac{3}{3})}$$

$$8) \frac{12}{36}I + \frac{16}{20} = \underline{\frac{4}{4}(\frac{3}{9}I + \frac{4}{5})}$$

$$9) -\frac{6}{32}J + \frac{3}{32} = \underline{-\frac{3}{32}(\frac{2}{1}J - \frac{1}{1})}$$

$$10) -\frac{4}{21}K + \frac{8}{35} = \underline{-\frac{4}{7}(\frac{1}{3}K - \frac{2}{5})}$$

Answers

1. $\underline{-\frac{4}{18}(\frac{1}{1}B - \frac{1}{3})}$

2. $\underline{-\frac{12}{12}(\frac{1}{2}C + \frac{1}{1})}$

3. $\underline{\frac{4}{14}(\frac{1}{3}D + \frac{2}{2})}$

4. $\underline{-\frac{4}{36}(\frac{2}{1}E + \frac{3}{1})}$

5. $\underline{-\frac{4}{16}(\frac{2}{2}F - \frac{3}{3})}$

6. $\underline{-\frac{3}{8}(\frac{1}{2}G - \frac{1}{7})}$

7. $\underline{\frac{4}{15}(\frac{5}{2}H + \frac{3}{3})}$

8. $\underline{\frac{4}{4}(\frac{3}{9}I + \frac{4}{5})}$

9. $\underline{-\frac{3}{32}(\frac{2}{1}J - \frac{1}{1})}$

10. $\underline{-\frac{4}{7}(\frac{1}{3}K - \frac{2}{5})}$



Factor each expression completely.

1) $\frac{2}{24}B - \frac{10}{16} =$ _____

2) $\frac{3}{18}C + \frac{6}{42} =$ _____

3) $-\frac{4}{18}D - \frac{4}{45} =$ _____

4) $-\frac{12}{45}E + \frac{3}{81} =$ _____

5) $\frac{16}{30}F + \frac{20}{25} =$ _____

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

7) $-\frac{3}{42}H + \frac{6}{56} =$ _____

8) $\frac{4}{20}I - \frac{12}{20} =$ _____

9) $-\frac{3}{72}J + \frac{21}{45} =$ _____

10) $\frac{15}{36}K + \frac{21}{24} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{2}{24}B - \frac{10}{16} = \frac{2}{8}(\frac{1}{3}B - \frac{5}{2})$$

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

$$3) -\frac{4}{18}D - \frac{4}{45} = \frac{-4}{9}(\frac{1}{2}D + \frac{1}{5})$$

$$4) -\frac{12}{45}E + \frac{3}{81} = \frac{-3}{9}(\frac{4}{5}E - \frac{1}{9})$$

$$5) \frac{16}{30}F + \frac{20}{25} = \frac{4}{5}(\frac{4}{6}F + \frac{5}{5})$$

$$6) \frac{8}{35}G - \frac{12}{35} = \frac{4}{35}(\frac{2}{1}G - \frac{3}{1})$$

$$7) -\frac{3}{42}H + \frac{6}{56} = \frac{-3}{14}(\frac{1}{3}H - \frac{2}{4})$$

$$8) \frac{4}{20}I - \frac{12}{20} = \frac{4}{20}(\frac{1}{1}I - \frac{3}{1})$$

$$9) -\frac{3}{72}J + \frac{21}{45} = \frac{-3}{9}(\frac{1}{8}J - \frac{7}{5})$$

$$10) \frac{15}{36}K + \frac{21}{24} = \frac{3}{12}(\frac{5}{3}K + \frac{7}{2})$$

Answers

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

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

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

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

5. $\frac{4}{5}(\frac{4}{6}F + \frac{5}{5})$

6. $\frac{4}{35}(\frac{2}{1}G - \frac{3}{1})$

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

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

9. $\frac{-3}{9}(\frac{1}{8}J - \frac{7}{5})$

10. $\frac{3}{12}(\frac{5}{3}K + \frac{7}{2})$



Factor each expression completely.

1) $\frac{24}{54}B + \frac{18}{36} =$ _____

2) $\frac{4}{63}C - \frac{6}{14} =$ _____

3) $-\frac{10}{36}D - \frac{6}{30} =$ _____

4) $-\frac{4}{15}E - \frac{8}{10} =$ _____

5) $-\frac{16}{64}F - \frac{20}{24} =$ _____

6) $\frac{2}{36}G + \frac{2}{72} =$ _____

7) $-\frac{21}{56}H + \frac{3}{49} =$ _____

8) $-\frac{6}{48}I + \frac{12}{64} =$ _____

9) $-\frac{16}{30}J - \frac{16}{18} =$ _____

10) $\frac{10}{45}K + \frac{12}{30} =$ _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Factor each expression completely.

$$1) \frac{24}{54}B + \frac{18}{36} = \underline{\frac{6}{18}(\frac{4}{3}B + \frac{3}{2})}$$

$$2) \frac{4}{63}C - \frac{6}{14} = \underline{\frac{2}{7}(\frac{2}{9}C - \frac{3}{2})}$$

$$3) -\frac{10}{36}D - \frac{6}{30} = \underline{-\frac{2}{6}(\frac{5}{6}D + \frac{3}{5})}$$

$$4) -\frac{4}{15}E - \frac{8}{10} = \underline{-\frac{4}{5}(\frac{1}{3}E + \frac{2}{2})}$$

$$5) -\frac{16}{64}F - \frac{20}{24} = \underline{-\frac{4}{8}(\frac{4}{8}F + \frac{5}{3})}$$

$$6) \frac{2}{36}G + \frac{2}{72} = \underline{\frac{2}{36}(\frac{1}{1}G + \frac{1}{2})}$$

$$7) -\frac{21}{56}H + \frac{3}{49} = \underline{-\frac{3}{7}(\frac{7}{8}H - \frac{1}{7})}$$

$$8) -\frac{6}{48}I + \frac{12}{64} = \underline{-\frac{6}{16}(\frac{1}{3}I - \frac{2}{4})}$$

$$9) -\frac{16}{30}J - \frac{16}{18} = \underline{-\frac{16}{6}(\frac{1}{5}J + \frac{1}{3})}$$

$$10) \frac{10}{45}K + \frac{12}{30} = \underline{\frac{2}{15}(\frac{5}{3}K + \frac{6}{2})}$$

Answers

1. $\underline{\frac{6}{18}(\frac{4}{3}B + \frac{3}{2})}$

2. $\underline{\frac{2}{7}(\frac{2}{9}C - \frac{3}{2})}$

3. $\underline{-\frac{2}{6}(\frac{5}{6}D + \frac{3}{5})}$

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

5. $\underline{-\frac{4}{8}(\frac{4}{8}F + \frac{5}{3})}$

6. $\underline{\frac{2}{36}(\frac{1}{1}G + \frac{1}{2})}$

7. $\underline{-\frac{3}{7}(\frac{7}{8}H - \frac{1}{7})}$

8. $\underline{-\frac{6}{16}(\frac{1}{3}I - \frac{2}{4})}$

9. $\underline{-\frac{16}{6}(\frac{1}{5}J + \frac{1}{3})}$

10. $\underline{\frac{2}{15}(\frac{5}{3}K + \frac{6}{2})}$