Factoring Expressions Name:

Factor each expression completely.

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

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

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

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

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

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

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

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

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

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

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Factoring Expressions Name: **Answer Key**

Factor each expression completely.

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

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

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

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

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

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

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

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

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

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

Answers

1. $-\frac{3}{8}(\frac{2}{5}b-\frac{3}{7})$
2. $\frac{2}{8}(\frac{2}{4}c+\frac{1}{9})$
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. $-\frac{4}{54}(\frac{2}{1}k-\frac{1}{1})$

1-10	90	80	70	60	50	40	30	20	10	0