Factor each expression completely.

1) $-\frac{16}{45}b+\frac{4}{45}$ = _____

2) $-\frac{3}{12}c+\frac{6}{16}$ = _____

3) $-\frac{16}{40}d+\frac{4}{35}$ = _____

4) $-\frac{4}{54}e-\frac{24}{18}$ = _____

5) $\frac{8}{64}f-\frac{6}{16}$ = _____

6) $\frac{21}{54}g+\frac{9}{42}$ = _____

7) $\frac{6}{72}h+\frac{10}{81}$ = _____

8) $-\frac{4}{72}i-\frac{2}{72}$ = _____

9) $\frac{8}{27}j-\frac{4}{27}$ = _____

10) $\frac{2}{14}k+\frac{2}{56}$ = _____

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) $-\frac{16}{45}b+\frac{4}{45}$ = $-\frac{4}{45}(\frac{4}{1}b-\frac{1}{1})$

2) $-\frac{3}{12}c+\frac{6}{16}$ = $-\frac{3}{4}(\frac{1}{3}c-\frac{2}{4})$

3) $-\frac{16}{40}d+\frac{4}{35}$ = $-\frac{4}{5}(\frac{4}{8}d-\frac{1}{7})$

4) $-\frac{4}{54}e-\frac{24}{18}$ = $-\frac{4}{18}(\frac{1}{3}e+\frac{6}{1})$

5) $\frac{8}{64}f-\frac{6}{16}$ = $\frac{2}{16}(\frac{4}{4}f-\frac{3}{1})$

6) $\frac{21}{54}g+\frac{9}{42}$ = $\frac{3}{6}(\frac{7}{9}g+\frac{3}{7})$

7) $\frac{6}{72}h+\frac{10}{81}$ = $\frac{2}{9}(\frac{3}{8}h+\frac{5}{9})$

8) $-\frac{4}{72}i-\frac{2}{72}$ = $-\frac{2}{72}(\frac{2}{1}i+\frac{1}{1})$

9) $\frac{8}{27}j-\frac{4}{27}$ = $\frac{4}{27}(\frac{2}{1}j-\frac{1}{1})$

10) $\frac{2}{14}k+\frac{2}{56}$ = $\frac{2}{14}(\frac{1}{1}k+\frac{1}{4})$

Answers

1. $-\frac{4}{45}(\frac{4}{1}b-\frac{1}{1})$
2. $-\frac{3}{4}(\frac{1}{3}c-\frac{2}{4})$
3. $-\frac{4}{5}(\frac{4}{8}d-\frac{1}{7})$
4. $-\frac{4}{18}(\frac{1}{3}e+\frac{6}{1})$
5. $\frac{2}{16}(\frac{4}{4}f-\frac{3}{1})$
6. $\frac{3}{6}(\frac{7}{9}g+\frac{3}{7})$
7. $\frac{2}{9}(\frac{3}{8}h+\frac{5}{9})$
8. $-\frac{2}{72}(\frac{2}{1}i+\frac{1}{1})$
9. $\frac{4}{27}(\frac{2}{1}j-\frac{1}{1})$
10. $\frac{2}{14}(\frac{1}{1}k+\frac{1}{4})$

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