Factor each expression completely.

1) $-\dfrac{4}{24}b-\dfrac{2}{56}$ = _____

2) $-\dfrac{6}{20}c+\dfrac{9}{15}$ = _____

3) $\dfrac{2}{72}d-\dfrac{8}{16}$ = _____

4) $-\dfrac{4}{35}e-\dfrac{16}{42}$ = _____

5) $-\dfrac{2}{15}f-\dfrac{6}{27}$ = _____

6) $-\dfrac{20}{42}g-\dfrac{12}{54}$ = _____

7) $\dfrac{12}{42}h+\dfrac{12}{24}$ = _____

8) $\dfrac{6}{64}i+\dfrac{3}{72}$ = _____

9) $-\dfrac{4}{10}j+\dfrac{4}{35}$ = _____

10) $\dfrac{4}{15}k+\dfrac{4}{25}$ = _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Name: _____

Factor each expression completely.

Answers

1) $-\dfrac{4}{24}b - \dfrac{2}{56} =$ $-\frac{2}{8}(\frac{2}{3}b + \frac{1}{7})$

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

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

2) $-\dfrac{6}{20}c + \dfrac{9}{15} =$ $-\frac{3}{5}(\frac{2}{4}c - \frac{3}{3})$

3. $\frac{2}{8}(\frac{1}{9}\mathbf{d} - \frac{4}{2})$

4. $-\frac{4}{7}(\frac{1}{5}\mathbf{e} + \frac{4}{6})$

3) $\dfrac{2}{72}d - \dfrac{8}{16} =$ $\frac{2}{8}(\frac{1}{9}d - \frac{4}{2})$

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

6. $-\frac{4}{6}(\frac{5}{7}\mathbf{g} + \frac{3}{9})$

4) $-\dfrac{4}{35}e - \dfrac{16}{42} =$ $-\frac{4}{7}(\frac{1}{5}e + \frac{4}{6})$

7. $\frac{12}{6}(\frac{1}{7}\mathbf{h} + \frac{1}{4})$

8. $\frac{3}{8}(\frac{2}{8}\mathbf{i} + \frac{1}{9})$

5) $-\dfrac{2}{15}f - \dfrac{6}{27} =$ $-\frac{2}{3}(\frac{1}{5}f + \frac{3}{9})$

9. $-\frac{4}{5}(\frac{1}{2}\mathbf{j} - \frac{1}{7})$

10. $\frac{4}{5}(\frac{1}{3}\mathbf{k} + \frac{1}{5})$

6) $-\dfrac{20}{42}g - \dfrac{12}{54} =$ $-\frac{4}{6}(\frac{5}{7}g + \frac{3}{9})$

7) $\dfrac{12}{42}h + \dfrac{12}{24} =$ $\frac{12}{6}(\frac{1}{7}h + \frac{1}{4})$

8) $\dfrac{6}{64}i + \dfrac{3}{72} =$ $\frac{3}{8}(\frac{2}{8}i + \frac{1}{9})$

9) $-\dfrac{4}{10}j + \dfrac{4}{35} =$ $-\frac{4}{5}(\frac{1}{2}j - \frac{1}{7})$

10) $\dfrac{4}{15}k + \dfrac{4}{25} =$ $\frac{4}{5}(\frac{1}{3}k + \frac{1}{5})$

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