



Expand each expression.

1) $-\frac{3}{5}\left(-\frac{2}{6}b - \frac{5}{3}\right)$

2) $-\frac{3}{7}\left(-\frac{2}{3}c - \frac{1}{8}\right)$

3) $-\frac{3}{9}\left(-\frac{1}{3}d - \frac{1}{8}\right)$

4) $-\frac{3}{4}\left(\frac{1}{2}e - \frac{1}{8}\right)$

5) $-\frac{3}{9}\left(\frac{5}{9}f + \frac{8}{8}\right)$

6) $-\frac{3}{6}\left(\frac{1}{7}g - \frac{3}{2}\right)$

7) $-\frac{4}{7}\left(\frac{2}{5}h + \frac{4}{2}\right)$

8) $\frac{4}{5}\left(\frac{3}{8}i + \frac{2}{3}\right)$

9) $\frac{2}{5}\left(\frac{1}{4}j + \frac{3}{2}\right)$

10) $-\frac{2}{6}\left(\frac{6}{8}k + \frac{5}{8}\right)$

11) $\frac{3}{5}\left(\frac{1}{4}m + \frac{2}{2}\right)$

12) $\frac{4}{7}\left(\frac{6}{9}n + \frac{8}{8}\right)$

13) $-\frac{2}{5}\left(-\frac{7}{8}p - \frac{1}{5}\right)$

14) $-\frac{2}{3}\left(\frac{4}{6}r + \frac{4}{3}\right)$

15) $-\frac{4}{9}\left(\frac{3}{4}t + \frac{2}{6}\right)$

16) $-\frac{4}{6}\left(\frac{2}{3}u + \frac{1}{7}\right)$

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18) $-\frac{4}{7}\left(-\frac{2}{5}w - \frac{3}{4}\right)$

19) $\frac{4}{5}\left(\frac{4}{5}y + \frac{4}{3}\right)$

20) $-\frac{4}{9}\left(-\frac{2}{3}z - \frac{2}{5}\right)$

Answers

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6) $-\frac{3}{6}\left(\frac{1}{7}g - \frac{3}{2}\right)$

7) $-\frac{4}{7}\left(\frac{2}{5}h + \frac{4}{2}\right)$

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20) $-\frac{4}{9}\left(-\frac{2}{3}z - \frac{2}{5}\right)$

Answers

1. $\frac{6}{30}b + \frac{15}{15}$

2. $\frac{6}{21}c + \frac{3}{56}$

3. $\frac{3}{27}d + \frac{3}{72}$

4. $-\frac{3}{8}e + \frac{3}{32}$

5. $-\frac{15}{81}f - \frac{24}{72}$

6. $-\frac{3}{42}g + \frac{9}{12}$

7. $-\frac{8}{35}h - \frac{16}{14}$

8. $\frac{12}{40}i + \frac{8}{15}$

9. $\frac{2}{20}j + \frac{6}{10}$

10. $-\frac{12}{48}k - \frac{10}{48}$

11. $\frac{3}{20}m + \frac{6}{10}$

12. $\frac{24}{63}n + \frac{32}{56}$

13. $\frac{14}{40}p + \frac{2}{25}$

14. $-\frac{8}{18}r - \frac{8}{9}$

15. $-\frac{12}{36}t - \frac{8}{54}$

16. $-\frac{8}{18}u - \frac{4}{42}$

17. $\frac{2}{32}v - \frac{8}{20}$

18. $\frac{8}{35}w + \frac{12}{28}$

19. $\frac{16}{25}y + \frac{16}{15}$

20. $\frac{8}{27}z + \frac{8}{45}$



Expand each expression.

1) $\frac{4}{6}(\frac{1}{8}b - \frac{4}{7})$

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

3) $-\frac{2}{5}(\frac{1}{2}d - \frac{1}{3})$

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

5) $-\frac{4}{8}(-\frac{6}{7}f - \frac{6}{6})$

6) $\frac{4}{9}(\frac{1}{3}g - \frac{1}{5})$

7) $-\frac{2}{7}(\frac{3}{8}h - \frac{2}{3})$

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Answers

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1) $\frac{4}{6}(\frac{1}{8}b - \frac{4}{7})$

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

3) $-\frac{2}{5}(\frac{1}{2}d - \frac{1}{3})$

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

5) $-\frac{4}{8}(-\frac{6}{7}f - \frac{6}{6})$

6) $\frac{4}{9}(\frac{1}{3}g - \frac{1}{5})$

7) $-\frac{2}{7}(\frac{3}{8}h - \frac{2}{3})$

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

9) $\frac{4}{5}(\frac{3}{5}j + \frac{3}{6})$

10) $\frac{4}{5}(\frac{4}{9}k + \frac{2}{8})$

11) $-\frac{2}{8}(-\frac{5}{9}m - \frac{8}{7})$

12) $-\frac{3}{9}(\frac{2}{3}n + \frac{2}{2})$

13) $-\frac{3}{6}(\frac{5}{6}p + \frac{1}{9})$

14) $-\frac{2}{8}(\frac{1}{6}r - \frac{1}{5})$

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19) $-\frac{4}{5}(\frac{4}{8}y + \frac{3}{8})$

20) $\frac{4}{7}(\frac{1}{5}z + \frac{2}{2})$

Answers

1. $\frac{4}{48}b - \frac{16}{42}$

2. $-\frac{8}{24}c + \frac{4}{24}$

3. $-\frac{2}{10}d + \frac{2}{15}$

4. $-\frac{15}{40}e + \frac{3}{10}$

5. $\frac{24}{56}f + \frac{24}{48}$

6. $\frac{4}{27}g - \frac{4}{45}$

7. $-\frac{6}{56}h + \frac{4}{21}$

8. $\frac{4}{64}i + \frac{2}{32}$

9. $\frac{12}{25}j + \frac{12}{30}$

10. $\frac{16}{45}k + \frac{8}{40}$

11. $\frac{10}{72}m + \frac{16}{56}$

12. $-\frac{6}{27}n - \frac{6}{18}$

13. $-\frac{15}{36}p - \frac{3}{54}$

14. $-\frac{2}{48}r + \frac{2}{40}$

15. $\frac{12}{20}t - \frac{6}{8}$

16. $\frac{24}{35}u + \frac{24}{40}$

17. $-\frac{8}{56}v + \frac{12}{14}$

18. $\frac{16}{35}w + \frac{16}{28}$

19. $-\frac{16}{40}y - \frac{12}{40}$

20. $\frac{4}{35}z + \frac{8}{14}$



Expand each expression.

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2) $-\frac{3}{6}\left(-\frac{2}{9}c - \frac{2}{3}\right)$

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Answers

1. $\frac{9}{24}b + \frac{6}{12}$

2. $\frac{6}{54}c + \frac{6}{18}$

3. $-\frac{4}{12}d - \frac{4}{48}$

4. $-\frac{3}{14}e + \frac{3}{49}$

5. $-\frac{8}{28}f - \frac{4}{42}$

6. $-\frac{3}{24}g - \frac{3}{24}$

7. $\frac{9}{32}h + \frac{6}{64}$

8. $-\frac{28}{81}i - \frac{24}{81}$

9. $-\frac{6}{30}j - \frac{9}{20}$

10. $\frac{3}{42}k + \frac{6}{63}$

11. $\frac{8}{24}m - \frac{6}{36}$

12. $\frac{6}{24}n + \frac{6}{72}$

13. $\frac{2}{72}p + \frac{4}{27}$

14. $\frac{20}{40}r - \frac{20}{35}$

15. $-\frac{6}{48}t + \frac{12}{18}$

16. $-\frac{2}{10}u + \frac{2}{45}$

17. $\frac{3}{25}v + \frac{12}{30}$

18. $\frac{2}{12}w - \frac{2}{18}$

19. $\frac{28}{40}y + \frac{28}{15}$

20. $\frac{8}{21}z - \frac{4}{42}$



Expand each expression.

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

2) $-\frac{4}{6}(\frac{7}{8}c - \frac{6}{2})$

3) $\frac{2}{7}(\frac{1}{4}d + \frac{1}{5})$

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

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6) $-\frac{3}{4}(-\frac{1}{3}g - \frac{1}{4})$

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

5) $-\frac{2}{4}(\frac{7}{8}f - \frac{4}{7})$

6) $-\frac{3}{4}(-\frac{1}{3}g - \frac{1}{4})$

7) $-\frac{2}{5}(\frac{4}{7}h + \frac{3}{7})$

8) $\frac{2}{9}(\frac{3}{4}i - \frac{1}{5})$

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

10) $-\frac{3}{7}(-\frac{1}{6}k - \frac{2}{2})$

11) $-\frac{3}{9}(\frac{7}{8}m - \frac{4}{5})$

12) $-\frac{2}{4}(\frac{1}{6}n + \frac{4}{6})$

13) $-\frac{4}{5}(\frac{6}{8}p + \frac{3}{9})$

14) $-\frac{4}{6}(\frac{2}{3}r - \frac{2}{4})$

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19) $\frac{3}{5}(\frac{2}{3}y + \frac{1}{4})$

20) $\frac{2}{7}(\frac{3}{5}z + \frac{2}{3})$

Answers

1. $\frac{9}{25}b + \frac{12}{45}$

2. $-\frac{28}{48}c + \frac{24}{12}$

3. $\frac{2}{28}d + \frac{2}{35}$

4. $\frac{24}{56}e + \frac{4}{56}$

5. $-\frac{14}{32}f + \frac{8}{28}$

6. $\frac{3}{12}g + \frac{3}{16}$

7. $-\frac{8}{35}h - \frac{6}{35}$

8. $\frac{6}{36}i - \frac{2}{45}$

9. $\frac{6}{12}j + \frac{2}{15}$

10. $\frac{3}{42}k + \frac{6}{14}$

11. $-\frac{21}{72}m + \frac{12}{45}$

12. $-\frac{2}{24}n - \frac{8}{24}$

13. $-\frac{24}{40}p - \frac{12}{45}$

14. $-\frac{8}{18}r + \frac{8}{24}$

15. $\frac{2}{45}t - \frac{14}{10}$

16. $-\frac{12}{63}u + \frac{12}{54}$

17. $\frac{6}{36}v + \frac{6}{72}$

18. $\frac{12}{54}w + \frac{16}{72}$

19. $\frac{6}{15}y + \frac{3}{20}$

20. $\frac{6}{35}z + \frac{4}{21}$



Expand each expression.

1) $\frac{4}{8}(\frac{1}{2}b - \frac{1}{4})$

2) $\frac{4}{6}(\frac{4}{7}c + \frac{1}{3})$

3) $\frac{4}{5}(\frac{1}{5}d - \frac{2}{9})$

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

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

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

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

8) $-\frac{2}{6}(\frac{4}{9}i + \frac{6}{7})$

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

10) $-\frac{3}{5}(-\frac{3}{5}k - \frac{4}{2})$

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16) $-\frac{4}{7}(\frac{2}{5}u - \frac{3}{4})$

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19) $\frac{4}{7}(\frac{4}{9}y + \frac{3}{2})$

20) $-\frac{2}{6}(\frac{3}{4}z - \frac{3}{5})$

Answers

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1) $\frac{4}{8}(\frac{1}{2}b - \frac{1}{4})$

2) $\frac{4}{6}(\frac{4}{7}c + \frac{1}{3})$

3) $\frac{4}{5}(\frac{1}{5}d - \frac{2}{9})$

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

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

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

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

8) $-\frac{2}{6}(\frac{4}{9}i + \frac{6}{7})$

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

10) $-\frac{3}{5}(-\frac{3}{5}k - \frac{4}{2})$

11) $\frac{3}{5}(\frac{1}{2}m - \frac{1}{5})$

12) $-\frac{2}{9}(\frac{6}{7}n + \frac{4}{8})$

13) $\frac{4}{5}(\frac{3}{4}p - \frac{2}{7})$

14) $-\frac{4}{6}(\frac{4}{7}r - \frac{1}{9})$

15) $-\frac{2}{9}(\frac{3}{6}t + \frac{2}{6})$

16) $-\frac{4}{7}(\frac{2}{5}u - \frac{3}{4})$

17) $-\frac{3}{7}(\frac{3}{6}v + \frac{2}{4})$

18) $\frac{3}{6}(\frac{5}{6}w + \frac{1}{2})$

19) $\frac{4}{7}(\frac{4}{9}y + \frac{3}{2})$

20) $-\frac{2}{6}(\frac{3}{4}z - \frac{3}{5})$

Answers

1. $\frac{4}{16}b - \frac{4}{32}$

2. $\frac{16}{42}c + \frac{4}{18}$

3. $\frac{4}{25}d - \frac{8}{45}$

4. $-\frac{4}{45}e - \frac{6}{18}$

5. $-\frac{3}{16}f + \frac{3}{32}$

6. $\frac{6}{12}g - \frac{6}{20}$

7. $\frac{4}{42}h - \frac{2}{24}$

8. $-\frac{8}{54}i - \frac{12}{42}$

9. $\frac{2}{14}j + \frac{2}{28}$

10. $\frac{9}{25}k + \frac{12}{10}$

11. $\frac{3}{10}m - \frac{3}{25}$

12. $-\frac{12}{63}n - \frac{8}{72}$

13. $\frac{12}{20}p - \frac{8}{35}$

14. $-\frac{16}{42}r + \frac{4}{54}$

15. $-\frac{6}{54}t - \frac{4}{54}$

16. $-\frac{8}{35}u + \frac{12}{28}$

17. $-\frac{9}{42}v - \frac{6}{28}$

18. $\frac{15}{36}w + \frac{3}{12}$

19. $\frac{16}{63}y + \frac{12}{14}$

20. $-\frac{6}{24}z + \frac{6}{30}$



Expand each expression.

1) $-\frac{4}{7}\left(-\frac{3}{7}b - \frac{6}{8}\right)$

2) $-\frac{4}{9}\left(-\frac{3}{6}c - \frac{2}{2}\right)$

3) $-\frac{2}{6}\left(-\frac{1}{4}d - \frac{1}{6}\right)$

4) $-\frac{4}{6}\left(\frac{2}{8}e + \frac{6}{9}\right)$

5) $\frac{4}{9}\left(\frac{2}{4}f + \frac{3}{9}\right)$

6) $\frac{3}{7}\left(\frac{4}{7}g + \frac{6}{3}\right)$

7) $-\frac{4}{9}\left(\frac{1}{4}h + \frac{1}{4}\right)$

8) $\frac{4}{5}\left(\frac{5}{8}i + \frac{6}{5}\right)$

9) $-\frac{3}{5}\left(-\frac{1}{2}j - \frac{1}{7}\right)$

10) $-\frac{4}{9}\left(\frac{2}{5}k + \frac{3}{6}\right)$

11) $\frac{4}{9}\left(\frac{2}{5}m + \frac{1}{5}\right)$

12) $-\frac{4}{9}\left(\frac{1}{3}n - \frac{2}{4}\right)$

13) $\frac{2}{9}\left(\frac{1}{9}p - \frac{8}{8}\right)$

14) $-\frac{2}{6}\left(-\frac{1}{9}r - \frac{7}{4}\right)$

15) $-\frac{2}{4}\left(\frac{1}{4}t + \frac{1}{8}\right)$

16) $\frac{2}{4}\left(\frac{1}{3}u - \frac{2}{7}\right)$

17) $\frac{2}{5}\left(\frac{3}{6}v + \frac{3}{4}\right)$

18) $\frac{2}{4}\left(\frac{5}{6}w + \frac{3}{5}\right)$

19) $-\frac{3}{9}\left(-\frac{1}{3}y - \frac{2}{8}\right)$

20) $\frac{4}{6}\left(\frac{1}{4}z + \frac{2}{3}\right)$

Answers

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Expand each expression.

1) $-\frac{4}{7}\left(-\frac{3}{7}b - \frac{6}{8}\right)$

2) $-\frac{4}{9}\left(-\frac{3}{6}c - \frac{2}{2}\right)$

3) $-\frac{2}{6}\left(-\frac{1}{4}d - \frac{1}{6}\right)$

4) $-\frac{4}{6}\left(\frac{2}{8}e + \frac{6}{9}\right)$

5) $\frac{4}{9}\left(\frac{2}{4}f + \frac{3}{9}\right)$

6) $\frac{3}{7}\left(\frac{4}{7}g + \frac{6}{3}\right)$

7) $-\frac{4}{9}\left(\frac{1}{4}h + \frac{1}{4}\right)$

8) $\frac{4}{5}\left(\frac{5}{8}i + \frac{6}{5}\right)$

9) $-\frac{3}{5}\left(-\frac{1}{2}j - \frac{1}{7}\right)$

10) $-\frac{4}{9}\left(\frac{2}{5}k + \frac{3}{6}\right)$

11) $\frac{4}{9}\left(\frac{2}{5}m + \frac{1}{5}\right)$

12) $-\frac{4}{9}\left(\frac{1}{3}n - \frac{2}{4}\right)$

13) $\frac{2}{9}\left(\frac{1}{9}p - \frac{8}{8}\right)$

14) $-\frac{2}{6}\left(-\frac{1}{9}r - \frac{7}{4}\right)$

15) $-\frac{2}{4}\left(\frac{1}{4}t + \frac{1}{8}\right)$

16) $\frac{2}{4}\left(\frac{1}{3}u - \frac{2}{7}\right)$

17) $\frac{2}{5}\left(\frac{3}{6}v + \frac{3}{4}\right)$

18) $\frac{2}{4}\left(\frac{5}{6}w + \frac{3}{5}\right)$

19) $-\frac{3}{9}\left(-\frac{1}{3}y - \frac{2}{8}\right)$

20) $\frac{4}{6}\left(\frac{1}{4}z + \frac{2}{3}\right)$

Answers

1. $\frac{12}{49}b + \frac{24}{56}$

2. $\frac{12}{54}c + \frac{8}{18}$

3. $\frac{2}{24}d + \frac{2}{36}$

4. $-\frac{8}{48}e - \frac{24}{54}$

5. $\frac{8}{36}f + \frac{12}{81}$

6. $\frac{12}{49}g + \frac{18}{21}$

7. $-\frac{4}{36}h - \frac{4}{36}$

8. $\frac{20}{40}i + \frac{24}{25}$

9. $\frac{3}{10}j + \frac{3}{35}$

10. $-\frac{8}{45}k - \frac{12}{54}$

11. $\frac{8}{45}m + \frac{4}{45}$

12. $-\frac{4}{27}n + \frac{8}{36}$

13. $\frac{2}{81}p - \frac{16}{72}$

14. $\frac{2}{54}r + \frac{14}{24}$

15. $-\frac{2}{16}t - \frac{2}{32}$

16. $\frac{2}{12}u - \frac{4}{28}$

17. $\frac{6}{30}v + \frac{6}{20}$

18. $\frac{10}{24}w + \frac{6}{20}$

19. $\frac{3}{27}y + \frac{6}{72}$

20. $\frac{4}{24}z + \frac{8}{18}$



Expand each expression.

1) $-\frac{2}{6}\left(-\frac{2}{3}b - \frac{1}{4}\right)$

2) $\frac{3}{4}\left(\frac{1}{3}c + \frac{1}{3}\right)$

3) $-\frac{2}{6}\left(\frac{3}{8}d - \frac{4}{5}\right)$

4) $-\frac{4}{9}\left(-\frac{8}{9}e - \frac{5}{2}\right)$

5) $-\frac{2}{6}\left(\frac{1}{2}f + \frac{1}{8}\right)$

6) $-\frac{3}{9}\left(-\frac{8}{9}g - \frac{7}{6}\right)$

7) $-\frac{3}{4}\left(-\frac{3}{6}h - \frac{5}{7}\right)$

8) $-\frac{2}{5}\left(-\frac{4}{6}i - \frac{1}{4}\right)$

9) $-\frac{3}{5}\left(\frac{5}{6}j + \frac{2}{5}\right)$

10) $-\frac{3}{5}\left(-\frac{5}{8}k - \frac{6}{6}\right)$

11) $-\frac{3}{9}\left(\frac{1}{3}m - \frac{2}{3}\right)$

12) $-\frac{4}{6}\left(\frac{4}{9}n + \frac{4}{2}\right)$

13) $-\frac{3}{8}\left(\frac{2}{5}p + \frac{4}{2}\right)$

14) $\frac{2}{4}\left(\frac{5}{9}r - \frac{4}{6}\right)$

15) $\frac{2}{4}\left(\frac{7}{8}t - \frac{3}{2}\right)$

16) $\frac{2}{3}\left(\frac{5}{7}u + \frac{6}{3}\right)$

17) $-\frac{2}{3}\left(\frac{1}{2}v + \frac{1}{7}\right)$

18) $-\frac{2}{8}\left(-\frac{7}{8}w - \frac{2}{5}\right)$

19) $-\frac{4}{8}\left(\frac{7}{8}y - \frac{2}{6}\right)$

20) $-\frac{3}{5}\left(\frac{3}{5}z + \frac{2}{4}\right)$

Answers

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Expand each expression.

1) $-\frac{2}{6}\left(-\frac{2}{3}b - \frac{1}{4}\right)$

2) $\frac{3}{4}\left(\frac{1}{3}c + \frac{1}{3}\right)$

3) $-\frac{2}{6}\left(\frac{3}{8}d - \frac{4}{5}\right)$

4) $-\frac{4}{9}\left(-\frac{8}{9}e - \frac{5}{2}\right)$

5) $-\frac{2}{6}\left(\frac{1}{2}f + \frac{1}{8}\right)$

6) $-\frac{3}{9}\left(-\frac{8}{9}g - \frac{7}{6}\right)$

7) $-\frac{3}{4}\left(-\frac{3}{6}h - \frac{5}{7}\right)$

8) $-\frac{2}{5}\left(-\frac{4}{6}i - \frac{1}{4}\right)$

9) $-\frac{3}{5}\left(\frac{5}{6}j + \frac{2}{5}\right)$

10) $-\frac{3}{5}\left(-\frac{5}{8}k - \frac{6}{6}\right)$

11) $-\frac{3}{9}\left(\frac{1}{3}m - \frac{2}{3}\right)$

12) $-\frac{4}{6}\left(\frac{4}{9}n + \frac{4}{2}\right)$

13) $-\frac{3}{8}\left(\frac{2}{5}p + \frac{4}{2}\right)$

14) $\frac{2}{4}\left(\frac{5}{9}r - \frac{4}{6}\right)$

15) $\frac{2}{4}\left(\frac{7}{8}t - \frac{3}{2}\right)$

16) $\frac{2}{3}\left(\frac{5}{7}u + \frac{6}{3}\right)$

17) $-\frac{2}{3}\left(\frac{1}{2}v + \frac{1}{7}\right)$

18) $-\frac{2}{8}\left(-\frac{7}{8}w - \frac{2}{5}\right)$

19) $-\frac{4}{8}\left(\frac{7}{8}y - \frac{2}{6}\right)$

20) $-\frac{3}{5}\left(\frac{3}{5}z + \frac{2}{4}\right)$

Answers

1. $\frac{4}{18}b + \frac{2}{24}$

2. $\frac{3}{12}c + \frac{3}{12}$

3. $-\frac{6}{48}d + \frac{8}{30}$

4. $\frac{32}{81}e + \frac{20}{18}$

5. $-\frac{2}{12}f - \frac{2}{48}$

6. $\frac{24}{81}g + \frac{21}{54}$

7. $\frac{9}{24}h + \frac{15}{28}$

8. $\frac{8}{30}i + \frac{2}{20}$

9. $-\frac{15}{30}j - \frac{6}{25}$

10. $\frac{15}{40}k + \frac{18}{30}$

11. $-\frac{3}{27}m + \frac{6}{27}$

12. $-\frac{16}{54}n - \frac{16}{12}$

13. $-\frac{6}{40}p - \frac{12}{16}$

14. $\frac{10}{36}r - \frac{8}{24}$

15. $\frac{14}{32}t - \frac{6}{8}$

16. $\frac{10}{21}u + \frac{12}{9}$

17. $-\frac{2}{6}v - \frac{2}{21}$

18. $\frac{14}{64}w + \frac{4}{40}$

19. $-\frac{28}{64}y + \frac{8}{48}$

20. $-\frac{9}{25}z - \frac{6}{20}$



Expand each expression.

1) $-\frac{4}{9}\left(\frac{3}{4}b - \frac{1}{4}\right)$

2) $\frac{3}{9}\left(\frac{1}{2}c + \frac{1}{5}\right)$

3) $\frac{3}{9}\left(\frac{6}{8}d - \frac{4}{6}\right)$

4) $-\frac{3}{9}\left(\frac{3}{4}e - \frac{2}{9}\right)$

5) $\frac{4}{9}\left(\frac{3}{6}f + \frac{4}{6}\right)$

6) $-\frac{4}{8}\left(\frac{1}{6}g - \frac{1}{3}\right)$

7) $-\frac{4}{8}\left(\frac{1}{4}h + \frac{3}{9}\right)$

8) $-\frac{2}{9}\left(\frac{2}{3}i + \frac{2}{7}\right)$

9) $\frac{2}{5}\left(\frac{3}{8}j - \frac{1}{6}\right)$

10) $\frac{4}{5}\left(\frac{4}{7}k - \frac{4}{6}\right)$

11) $-\frac{4}{6}\left(-\frac{3}{5}m - \frac{4}{4}\right)$

12) $-\frac{2}{7}\left(-\frac{1}{7}n - \frac{3}{7}\right)$

13) $\frac{3}{6}\left(\frac{4}{7}p - \frac{4}{4}\right)$

14) $\frac{2}{3}\left(\frac{5}{8}r - \frac{6}{4}\right)$

15) $-\frac{2}{5}\left(\frac{1}{6}t + \frac{1}{5}\right)$

16) $-\frac{4}{7}\left(\frac{4}{7}u - \frac{5}{7}\right)$

17) $-\frac{2}{8}\left(-\frac{1}{7}v - \frac{6}{8}\right)$

18) $\frac{4}{9}\left(\frac{1}{9}w + \frac{5}{2}\right)$

19) $-\frac{4}{9}\left(\frac{3}{5}y + \frac{3}{3}\right)$

20) $\frac{2}{4}\left(\frac{2}{6}z + \frac{1}{8}\right)$

Answers

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Expand each expression.

1) $-\frac{4}{9}\left(\frac{3}{4}b - \frac{1}{4}\right)$

2) $\frac{3}{9}\left(\frac{1}{2}c + \frac{1}{5}\right)$

3) $\frac{3}{9}\left(\frac{6}{8}d - \frac{4}{6}\right)$

4) $-\frac{3}{9}\left(\frac{3}{4}e - \frac{2}{9}\right)$

5) $\frac{4}{9}\left(\frac{3}{6}f + \frac{4}{6}\right)$

6) $-\frac{4}{8}\left(\frac{1}{6}g - \frac{1}{3}\right)$

7) $-\frac{4}{8}\left(\frac{1}{4}h + \frac{3}{9}\right)$

8) $-\frac{2}{9}\left(\frac{2}{3}i + \frac{2}{7}\right)$

9) $\frac{2}{5}\left(\frac{3}{8}j - \frac{1}{6}\right)$

10) $\frac{4}{5}\left(\frac{4}{7}k - \frac{4}{6}\right)$

11) $-\frac{4}{6}\left(-\frac{3}{5}m - \frac{4}{4}\right)$

12) $-\frac{2}{7}\left(-\frac{1}{7}n - \frac{3}{7}\right)$

13) $\frac{3}{6}\left(\frac{4}{7}p - \frac{4}{4}\right)$

14) $\frac{2}{3}\left(\frac{5}{8}r - \frac{6}{4}\right)$

15) $-\frac{2}{5}\left(\frac{1}{6}t + \frac{1}{5}\right)$

16) $-\frac{4}{7}\left(\frac{4}{7}u - \frac{5}{7}\right)$

17) $-\frac{2}{8}\left(-\frac{1}{7}v - \frac{6}{8}\right)$

18) $\frac{4}{9}\left(\frac{1}{9}w + \frac{5}{2}\right)$

19) $-\frac{4}{9}\left(\frac{3}{5}y + \frac{3}{3}\right)$

20) $\frac{2}{4}\left(\frac{2}{6}z + \frac{1}{8}\right)$

Answers

1. $-\frac{12}{36}b + \frac{4}{36}$

2. $\frac{3}{18}c + \frac{3}{45}$

3. $\frac{18}{72}d - \frac{12}{54}$

4. $-\frac{9}{36}e + \frac{6}{81}$

5. $\frac{12}{54}f + \frac{16}{54}$

6. $-\frac{4}{48}g + \frac{4}{24}$

7. $-\frac{4}{32}h - \frac{12}{72}$

8. $-\frac{4}{27}i - \frac{4}{63}$

9. $\frac{6}{40}j - \frac{2}{30}$

10. $\frac{16}{35}k - \frac{16}{30}$

11. $\frac{12}{30}m + \frac{16}{24}$

12. $\frac{2}{49}n + \frac{6}{49}$

13. $\frac{12}{42}p - \frac{12}{24}$

14. $\frac{10}{24}r - \frac{12}{12}$

15. $-\frac{2}{30}t - \frac{2}{25}$

16. $-\frac{16}{49}u + \frac{20}{49}$

17. $\frac{2}{56}v + \frac{12}{64}$

18. $\frac{4}{81}w + \frac{20}{18}$

19. $-\frac{12}{45}y - \frac{12}{27}$

20. $\frac{4}{24}z + \frac{2}{32}$



Expand each expression.

1) $-\frac{2}{9}\left(-\frac{1}{5}b - \frac{3}{5}\right)$

2) $\frac{3}{5}\left(\frac{1}{2}c + \frac{1}{6}\right)$

3) $-\frac{3}{9}\left(\frac{1}{6}d + \frac{3}{5}\right)$

4) $\frac{2}{4}\left(\frac{4}{5}e - \frac{4}{5}\right)$

5) $-\frac{3}{9}\left(-\frac{5}{7}f - \frac{4}{9}\right)$

6) $-\frac{2}{5}\left(-\frac{2}{3}g - \frac{2}{3}\right)$

7) $\frac{4}{7}\left(\frac{5}{9}h - \frac{7}{7}\right)$

8) $\frac{2}{5}\left(\frac{7}{8}i + \frac{2}{9}\right)$

9) $\frac{3}{5}\left(\frac{3}{7}j - \frac{6}{6}\right)$

10) $-\frac{3}{5}\left(\frac{6}{8}k + \frac{2}{6}\right)$

11) $-\frac{4}{9}\left(\frac{2}{4}m - \frac{2}{3}\right)$

12) $-\frac{2}{9}\left(\frac{1}{2}n + \frac{1}{9}\right)$

13) $-\frac{2}{3}\left(\frac{5}{9}p - \frac{6}{6}\right)$

14) $-\frac{4}{5}\left(\frac{1}{6}r - \frac{2}{7}\right)$

15) $-\frac{3}{9}\left(\frac{2}{5}t + \frac{1}{2}\right)$

16) $-\frac{4}{7}\left(\frac{1}{2}u + \frac{1}{4}\right)$

17) $-\frac{4}{8}\left(\frac{1}{3}v + \frac{2}{5}\right)$

18) $\frac{3}{7}\left(\frac{1}{2}w - \frac{1}{7}\right)$

19) $\frac{3}{4}\left(\frac{2}{8}y + \frac{2}{3}\right)$

20) $-\frac{4}{6}\left(-\frac{1}{6}z - \frac{3}{8}\right)$

Answers

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Expand each expression.

1) $-\frac{2}{9}\left(-\frac{1}{5}b - \frac{3}{5}\right)$

2) $\frac{3}{5}\left(\frac{1}{2}c + \frac{1}{6}\right)$

3) $-\frac{3}{9}\left(\frac{1}{6}d + \frac{3}{5}\right)$

4) $\frac{2}{4}\left(\frac{4}{5}e - \frac{4}{5}\right)$

5) $-\frac{3}{9}\left(-\frac{5}{7}f - \frac{4}{9}\right)$

6) $-\frac{2}{5}\left(-\frac{2}{3}g - \frac{2}{3}\right)$

7) $\frac{4}{7}\left(\frac{5}{9}h - \frac{7}{7}\right)$

8) $\frac{2}{5}\left(\frac{7}{8}i + \frac{2}{9}\right)$

9) $\frac{3}{5}\left(\frac{3}{7}j - \frac{6}{6}\right)$

10) $-\frac{3}{5}\left(\frac{6}{8}k + \frac{2}{6}\right)$

11) $-\frac{4}{9}\left(\frac{2}{4}m - \frac{2}{3}\right)$

12) $-\frac{2}{9}\left(\frac{1}{2}n + \frac{1}{9}\right)$

13) $-\frac{2}{3}\left(\frac{5}{9}p - \frac{6}{6}\right)$

14) $-\frac{4}{5}\left(\frac{1}{6}r - \frac{2}{7}\right)$

15) $-\frac{3}{9}\left(\frac{2}{5}t + \frac{1}{2}\right)$

16) $-\frac{4}{7}\left(\frac{1}{2}u + \frac{1}{4}\right)$

17) $-\frac{4}{8}\left(\frac{1}{3}v + \frac{2}{5}\right)$

18) $\frac{3}{7}\left(\frac{1}{2}w - \frac{1}{7}\right)$

19) $\frac{3}{4}\left(\frac{2}{8}y + \frac{2}{3}\right)$

20) $-\frac{4}{6}\left(-\frac{1}{6}z - \frac{3}{8}\right)$

Answers

1. $\frac{2}{45}b + \frac{6}{45}$

2. $\frac{3}{10}c + \frac{3}{30}$

3. $-\frac{3}{54}d - \frac{9}{45}$

4. $\frac{8}{20}e - \frac{8}{20}$

5. $\frac{15}{63}f + \frac{12}{81}$

6. $\frac{4}{15}g + \frac{4}{15}$

7. $\frac{20}{63}h - \frac{28}{49}$

8. $\frac{14}{40}i + \frac{4}{45}$

9. $\frac{9}{35}j - \frac{18}{30}$

10. $-\frac{18}{40}k - \frac{6}{30}$

11. $-\frac{8}{36}m + \frac{8}{27}$

12. $-\frac{2}{18}n - \frac{2}{81}$

13. $-\frac{10}{27}p + \frac{12}{18}$

14. $-\frac{4}{30}r + \frac{8}{35}$

15. $-\frac{6}{45}t - \frac{3}{18}$

16. $-\frac{4}{14}u - \frac{4}{28}$

17. $-\frac{4}{24}v - \frac{8}{40}$

18. $\frac{3}{14}w - \frac{3}{49}$

19. $\frac{6}{32}y + \frac{6}{12}$

20. $\frac{4}{36}z + \frac{12}{48}$



Expand each expression.

1) $-\frac{4}{5}\left(-\frac{3}{6}b - \frac{2}{9}\right)$

2) $-\frac{3}{7}\left(\frac{4}{5}c - \frac{1}{3}\right)$

3) $-\frac{2}{9}\left(\frac{1}{3}d + \frac{2}{2}\right)$

4) $\frac{2}{4}\left(\frac{5}{8}e - \frac{3}{8}\right)$

5) $-\frac{3}{9}\left(\frac{7}{9}f - \frac{2}{5}\right)$

6) $-\frac{3}{7}\left(\frac{1}{2}g - \frac{1}{5}\right)$

7) $-\frac{4}{8}\left(-\frac{3}{7}h - \frac{2}{9}\right)$

8) $-\frac{4}{8}\left(\frac{1}{2}i - \frac{1}{4}\right)$

9) $-\frac{4}{5}\left(-\frac{4}{8}j - \frac{2}{9}\right)$

10) $-\frac{2}{5}\left(\frac{4}{7}k + \frac{1}{6}\right)$

11) $\frac{3}{9}\left(\frac{1}{2}m - \frac{1}{4}\right)$

12) $\frac{2}{4}\left(\frac{4}{8}n + \frac{1}{3}\right)$

13) $-\frac{2}{5}\left(-\frac{1}{3}p - \frac{1}{8}\right)$

14) $-\frac{3}{9}\left(-\frac{1}{2}r - \frac{1}{8}\right)$

15) $-\frac{2}{3}\left(\frac{1}{3}t - \frac{2}{5}\right)$

16) $-\frac{4}{6}\left(-\frac{1}{4}u - \frac{3}{7}\right)$

17) $\frac{3}{7}\left(\frac{1}{3}v + \frac{2}{9}\right)$

18) $-\frac{2}{9}\left(\frac{2}{4}w + \frac{3}{9}\right)$

19) $\frac{2}{7}\left(\frac{4}{7}y - \frac{5}{7}\right)$

20) $-\frac{2}{3}\left(-\frac{1}{3}z - \frac{1}{8}\right)$

Answers

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Expand each expression.

1) $-\frac{4}{5}\left(-\frac{3}{6}b - \frac{2}{9}\right)$

2) $-\frac{3}{7}\left(\frac{4}{5}c - \frac{1}{3}\right)$

3) $-\frac{2}{9}\left(\frac{1}{3}d + \frac{2}{2}\right)$

4) $\frac{2}{4}\left(\frac{5}{8}e - \frac{3}{8}\right)$

5) $-\frac{3}{9}\left(\frac{7}{9}f - \frac{2}{5}\right)$

6) $-\frac{3}{7}\left(\frac{1}{2}g - \frac{1}{5}\right)$

7) $-\frac{4}{8}\left(-\frac{3}{7}h - \frac{2}{9}\right)$

8) $-\frac{4}{8}\left(\frac{1}{2}i - \frac{1}{4}\right)$

9) $-\frac{4}{5}\left(-\frac{4}{8}j - \frac{2}{9}\right)$

10) $-\frac{2}{5}\left(\frac{4}{7}k + \frac{1}{6}\right)$

11) $\frac{3}{9}\left(\frac{1}{2}m - \frac{1}{4}\right)$

12) $\frac{2}{4}\left(\frac{4}{8}n + \frac{1}{3}\right)$

13) $-\frac{2}{5}\left(-\frac{1}{3}p - \frac{1}{8}\right)$

14) $-\frac{3}{9}\left(-\frac{1}{2}r - \frac{1}{8}\right)$

15) $-\frac{2}{3}\left(\frac{1}{3}t - \frac{2}{5}\right)$

16) $-\frac{4}{6}\left(-\frac{1}{4}u - \frac{3}{7}\right)$

17) $\frac{3}{7}\left(\frac{1}{3}v + \frac{2}{9}\right)$

18) $-\frac{2}{9}\left(\frac{2}{4}w + \frac{3}{9}\right)$

19) $\frac{2}{7}\left(\frac{4}{7}y - \frac{5}{7}\right)$

20) $-\frac{2}{3}\left(-\frac{1}{3}z - \frac{1}{8}\right)$

Answers

1. $\frac{12}{30}b + \frac{8}{45}$

2. $-\frac{12}{35}c + \frac{3}{21}$

3. $-\frac{2}{27}d - \frac{4}{18}$

4. $\frac{10}{32}e - \frac{6}{32}$

5. $-\frac{21}{81}f + \frac{6}{45}$

6. $-\frac{3}{14}g + \frac{3}{35}$

7. $\frac{12}{56}h + \frac{8}{72}$

8. $-\frac{4}{16}i + \frac{4}{32}$

9. $\frac{16}{40}j + \frac{8}{45}$

10. $-\frac{8}{35}k - \frac{2}{30}$

11. $\frac{3}{18}m - \frac{3}{36}$

12. $\frac{8}{32}n + \frac{2}{12}$

13. $\frac{2}{15}p + \frac{2}{40}$

14. $\frac{3}{18}r + \frac{3}{72}$

15. $-\frac{2}{9}t + \frac{4}{15}$

16. $\frac{4}{24}u + \frac{12}{42}$

17. $\frac{3}{21}v + \frac{6}{63}$

18. $-\frac{4}{36}w - \frac{6}{81}$

19. $\frac{8}{49}y - \frac{10}{49}$

20. $\frac{2}{9}z + \frac{2}{24}$