



Expand each expression.

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

2)  $\frac{4}{8}\left(\frac{6}{7c} + \frac{1}{9}\right)$

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

4)  $\frac{2}{9}\left(\frac{5}{7e} + \frac{2}{5}\right)$

5)  $-\frac{3}{7}\left(-\frac{3}{5f} - \frac{1}{7}\right)$

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

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

8)  $\frac{4}{7}\left(\frac{2}{3j} - \frac{1}{8}\right)$

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

10)  $-\frac{2}{9}\left(\frac{1}{2m} + \frac{1}{6}\right)$

11)  $\frac{4}{7}\left(\frac{1}{3n} + \frac{1}{8}\right)$

12)  $-\frac{2}{8}\left(-\frac{2}{6p} - \frac{4}{8}\right)$

13)  $-\frac{3}{6}\left(-\frac{3}{8q} - \frac{1}{2}\right)$

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

15)  $-\frac{3}{6}\left(\frac{3}{4t} - \frac{1}{5}\right)$

16)  $\frac{3}{6}\left(\frac{4}{8u} + \frac{5}{2}\right)$

17)  $-\frac{4}{5}\left(\frac{5}{7v} + \frac{3}{2}\right)$

18)  $\frac{4}{9}\left(\frac{1}{4w} - \frac{1}{8}\right)$

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

20)  $-\frac{2}{7}\left(-\frac{1}{9y} - \frac{2}{4}\right)$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

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17. \_\_\_\_\_

18. \_\_\_\_\_

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

2)  $\frac{4}{8}\left(\frac{6}{7}c + \frac{1}{9}\right)$

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

4)  $\frac{2}{9}\left(\frac{5}{7}e + \frac{2}{5}\right)$

5)  $-\frac{3}{7}\left(-\frac{3}{5}f - \frac{1}{7}\right)$

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

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

8)  $\frac{4}{7}\left(\frac{2}{3}j - \frac{1}{8}\right)$

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

10)  $-\frac{2}{9}\left(\frac{1}{2}m + \frac{1}{6}\right)$

11)  $\frac{4}{7}\left(\frac{1}{3}n + \frac{1}{8}\right)$

12)  $-\frac{2}{8}\left(-\frac{2}{6}p - \frac{4}{8}\right)$

13)  $-\frac{3}{6}\left(-\frac{3}{8}q - \frac{1}{2}\right)$

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

15)  $-\frac{3}{6}\left(\frac{3}{4}t - \frac{1}{5}\right)$

16)  $\frac{3}{6}\left(\frac{4}{8}u + \frac{5}{2}\right)$

17)  $-\frac{4}{5}\left(\frac{5}{7}v + \frac{3}{2}\right)$

18)  $\frac{4}{9}\left(\frac{1}{4}w - \frac{1}{8}\right)$

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

20)  $-\frac{2}{7}\left(-\frac{1}{9}y - \frac{2}{4}\right)$

Answers

1.  $-\frac{4}{24}b + \frac{8}{64}$

2.  $\frac{24}{56}c + \frac{4}{72}$

3.  $-\frac{8}{45}d + \frac{4}{36}$

4.  $\frac{10}{63}e + \frac{4}{45}$

5.  $\frac{9}{35}f + \frac{3}{49}$

6.  $-\frac{4}{20}g - \frac{2}{36}$

7.  $-\frac{6}{12}h + \frac{3}{24}$

8.  $\frac{8}{21}j - \frac{4}{56}$

9.  $-\frac{15}{81}k - \frac{15}{36}$

10.  $-\frac{2}{18}m - \frac{2}{54}$

11.  $\frac{4}{21}n + \frac{4}{56}$

12.  $\frac{4}{48}p + \frac{8}{64}$

13.  $\frac{9}{48}q + \frac{3}{12}$

14.  $\frac{3}{27}r + \frac{6}{72}$

15.  $-\frac{9}{24}t + \frac{3}{30}$

16.  $\frac{12}{48}u + \frac{15}{12}$

17.  $-\frac{20}{35}v - \frac{12}{10}$

18.  $\frac{4}{36}w - \frac{4}{72}$

19.  $\frac{3}{24}x - \frac{3}{48}$

20.  $\frac{2}{63}y + \frac{4}{28}$