Algebra 1

Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\dfrac{5}{4}x - \dfrac{14}{5}\right)\left(\dfrac{9}{2}x - \dfrac{3}{4}\right)$

2) $\left(r + \dfrac{17}{8}\right)\left(\dfrac{21}{5}r + \dfrac{5}{3}\right)$

3) $\left(\dfrac{1}{2}x + \dfrac{2}{5}\right)\left(\dfrac{9}{5}x - \dfrac{3}{2}\right)$

4) $\left(\dfrac{3}{2}b + \dfrac{3}{2}\right)\left(2b + \dfrac{5}{3}\right)$

5) $\left(\dfrac{5}{6}p + \dfrac{9}{2}\right)\left(\dfrac{6}{5}p + \dfrac{7}{4}\right)$

6) $\left(\dfrac{15}{8}p + \dfrac{1}{8}\right)\left(\dfrac{5}{3}p + \dfrac{19}{8}\right)$

7) $\left(\dfrac{6}{5}x - \dfrac{8}{5}\right)\left(\dfrac{1}{5}x - \dfrac{6}{5}\right)$

8) $\left(m + \dfrac{2}{3}\right)\left(\dfrac{2}{7}m - \dfrac{13}{4}\right)$

9) $\left(\dfrac{3}{2}v + \dfrac{23}{6}\right)\left(\dfrac{17}{4}v + \dfrac{1}{2}\right)$

10) $\left(\dfrac{1}{5}b + \dfrac{7}{4}\right)\left(\dfrac{1}{2}b - \dfrac{1}{2}\right)$

11) $\left(\dfrac{17}{4}x - \dfrac{2}{3}\right)\left(\dfrac{5}{3}x + \dfrac{7}{2}\right)$

12) $\left(\dfrac{24}{7}x + 1\right)\left(\dfrac{3}{2}x - \dfrac{4}{7}\right)$

13) $\left(\dfrac{6}{7}x - \dfrac{1}{2}\right)\left(2x - \dfrac{11}{8}\right)$

14) $\left(\dfrac{13}{6}x - \dfrac{7}{4}\right)\left(\dfrac{8}{3}x + 2\right)$

15) $\left(\dfrac{19}{5}x - \dfrac{14}{5}\right)\left(\dfrac{1}{3}x - \dfrac{3}{2}\right)$

16) $\left(\dfrac{5}{3}n - \dfrac{3}{2}\right)\left(\dfrac{7}{4}n + 2\right)$

17) $\left(\dfrac{7}{4}b + \dfrac{1}{3}\right)\left(\dfrac{9}{4}b - \dfrac{1}{5}\right)$

18) $\left(\dfrac{5}{3}v + \dfrac{4}{7}\right)\left(\dfrac{21}{5}v - \dfrac{4}{3}\right)$

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Find each product.

1) $\left(\dfrac{5}{4}x - \dfrac{14}{5}\right)\left(\dfrac{9}{2}x - \dfrac{3}{4}\right)$

$\dfrac{45}{8}x^2 - \dfrac{1083}{80}x + \dfrac{21}{10}$

2) $\left(r + \dfrac{17}{8}\right)\left(\dfrac{21}{5}r + \dfrac{5}{3}\right)$

$\dfrac{21}{5}r^2 + \dfrac{1271}{120}r + \dfrac{85}{24}$

3) $\left(\dfrac{1}{2}x + \dfrac{2}{5}\right)\left(\dfrac{9}{5}x - \dfrac{3}{2}\right)$

$\dfrac{9}{10}x^2 - \dfrac{3}{100}x - \dfrac{3}{5}$

4) $\left(\dfrac{3}{2}b + \dfrac{3}{2}\right)\left(2b + \dfrac{5}{3}\right)$

$3b^2 + \dfrac{11}{2}b + \dfrac{5}{2}$

5) $\left(\dfrac{5}{6}p + \dfrac{9}{2}\right)\left(\dfrac{6}{5}p + \dfrac{7}{4}\right)$

$p^2 + \dfrac{823}{120}p + \dfrac{63}{8}$

6) $\left(\dfrac{15}{8}p + \dfrac{1}{8}\right)\left(\dfrac{5}{3}p + \dfrac{19}{8}\right)$

$\dfrac{25}{8}p^2 + \dfrac{895}{192}p + \dfrac{19}{64}$

7) $\left(\dfrac{6}{5}x - \dfrac{8}{5}\right)\left(\dfrac{1}{5}x - \dfrac{6}{5}\right)$

$\dfrac{6}{25}x^2 - \dfrac{44}{25}x + \dfrac{48}{25}$

8) $\left(m + \dfrac{2}{3}\right)\left(\dfrac{2}{7}m - \dfrac{13}{4}\right)$

$\dfrac{2}{7}m^2 - \dfrac{257}{84}m - \dfrac{13}{6}$

9) $\left(\dfrac{3}{2}v + \dfrac{23}{6}\right)\left(\dfrac{17}{4}v + \dfrac{1}{2}\right)$

$\dfrac{51}{8}v^2 + \dfrac{409}{24}v + \dfrac{23}{12}$

10) $\left(\dfrac{1}{5}b + \dfrac{7}{4}\right)\left(\dfrac{1}{2}b - \dfrac{1}{2}\right)$

$\dfrac{1}{10}b^2 + \dfrac{31}{40}b - \dfrac{7}{8}$

11) $\left(\dfrac{17}{4}x - \dfrac{2}{3}\right)\left(\dfrac{5}{3}x + \dfrac{7}{2}\right)$

$\dfrac{85}{12}x^2 + \dfrac{991}{72}x - \dfrac{7}{3}$

12) $\left(\dfrac{24}{7}x + 1\right)\left(\dfrac{3}{2}x - \dfrac{4}{7}\right)$

$\dfrac{36}{7}x^2 - \dfrac{45}{98}x - \dfrac{4}{7}$

13) $\left(\dfrac{6}{7}x - \dfrac{1}{2}\right)\left(2x - \dfrac{11}{8}\right)$

$\dfrac{12}{7}x^2 - \dfrac{61}{28}x + \dfrac{11}{16}$

14) $\left(\dfrac{13}{6}x - \dfrac{7}{4}\right)\left(\dfrac{8}{3}x + 2\right)$

$\dfrac{52}{9}x^2 - \dfrac{1}{3}x - \dfrac{7}{2}$

15) $\left(\dfrac{19}{5}x - \dfrac{14}{5}\right)\left(\dfrac{1}{3}x - \dfrac{3}{2}\right)$

$\dfrac{19}{15}x^2 - \dfrac{199}{30}x + \dfrac{21}{5}$

16) $\left(\dfrac{5}{3}n - \dfrac{3}{2}\right)\left(\dfrac{7}{4}n + 2\right)$

$\dfrac{35}{12}n^2 + \dfrac{17}{24}n - 3$

17) $\left(\dfrac{7}{4}b + \dfrac{1}{3}\right)\left(\dfrac{9}{4}b - \dfrac{1}{5}\right)$

$\dfrac{63}{16}b^2 + \dfrac{2}{5}b - \dfrac{1}{15}$

18) $\left(\dfrac{5}{3}v + \dfrac{4}{7}\right)\left(\dfrac{21}{5}v - \dfrac{4}{3}\right)$

$7v^2 + \dfrac{8}{45}v - \dfrac{16}{21}$

Algebra 1   Name_____

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Find each product.

1) $\left(6k - \dfrac{7}{4}\right)\left(\dfrac{4}{5}k + \dfrac{8}{3}\right)$

2) $\left(\dfrac{1}{4}m + \dfrac{10}{3}\right)\left(\dfrac{16}{5}m + 1\right)$

3) $\left(\dfrac{1}{3}x + \dfrac{9}{7}\right)\left(\dfrac{17}{6}x - \dfrac{3}{8}\right)$

4) $\left(\dfrac{39}{8}x + \dfrac{7}{5}\right)\left(\dfrac{1}{2}x - \dfrac{1}{3}\right)$

5) $\left(\dfrac{5}{2}n + \dfrac{13}{5}\right)\left(\dfrac{5}{4}n + \dfrac{7}{6}\right)$

6) $\left(\dfrac{1}{2}x + \dfrac{2}{5}\right)\left(\dfrac{1}{2}x + \dfrac{6}{7}\right)$

7) $\left(\dfrac{3}{2}n + \dfrac{19}{8}\right)\left(2n - \dfrac{1}{2}\right)$

8) $\left(\dfrac{3}{5}x + \dfrac{7}{4}\right)\left(\dfrac{3}{8}x - \dfrac{13}{3}\right)$

9) $\left(\dfrac{32}{7}x - \dfrac{25}{7}\right)\left(2x - \dfrac{10}{3}\right)$

10) $\left(\dfrac{7}{4}x - \dfrac{7}{8}\right)\left(\dfrac{12}{7}x + \dfrac{35}{8}\right)$

11) $\left(2n - \dfrac{1}{2}\right)\left(\dfrac{1}{5}n - \dfrac{6}{5}\right)$

12) $\left(2x + \dfrac{7}{8}\right)\left(\dfrac{2}{3}x - \dfrac{4}{5}\right)$

13) $\left(\dfrac{7}{4}x + 2\right)\left(\dfrac{11}{6}x - \dfrac{19}{4}\right)$

14) $\left(\dfrac{1}{2}m + \dfrac{15}{4}\right)\left(\dfrac{1}{5}m - \dfrac{8}{5}\right)$

15) $\left(2p + \dfrac{2}{3}\right)\left(\dfrac{9}{2}p - \dfrac{7}{4}\right)$

16) $\left(\dfrac{7}{4}x + \dfrac{43}{5}\right)\left(\dfrac{6}{5}x + 2\right)$

17) $\left(\dfrac{3}{7}a + \dfrac{23}{5}\right)\left(a + \dfrac{7}{2}\right)$

18) $\left(\dfrac{14}{5}m + \dfrac{7}{8}\right)\left(\dfrac{29}{6}m + \dfrac{11}{6}\right)$

Algebra 1   Name_____

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Find each product.

1) $\left(6k - \dfrac{7}{4}\right)\left(\dfrac{4}{5}k + \dfrac{8}{3}\right)$

$\dfrac{24}{5}k^2 + \dfrac{73}{5}k - \dfrac{14}{3}$

2) $\left(\dfrac{1}{4}m + \dfrac{10}{3}\right)\left(\dfrac{16}{5}m + 1\right)$

$\dfrac{4}{5}m^2 + \dfrac{131}{12}m + \dfrac{10}{3}$

3) $\left(\dfrac{1}{3}x + \dfrac{9}{7}\right)\left(\dfrac{17}{6}x - \dfrac{3}{8}\right)$

$\dfrac{17}{18}x^2 + \dfrac{197}{56}x - \dfrac{27}{56}$

4) $\left(\dfrac{39}{8}x + \dfrac{7}{5}\right)\left(\dfrac{1}{2}x - \dfrac{1}{3}\right)$

$\dfrac{39}{16}x^2 - \dfrac{37}{40}x - \dfrac{7}{15}$

5) $\left(\dfrac{5}{2}n + \dfrac{13}{5}\right)\left(\dfrac{5}{4}n + \dfrac{7}{6}\right)$

$\dfrac{25}{8}n^2 + \dfrac{37}{6}n + \dfrac{91}{30}$

6) $\left(\dfrac{1}{2}x + \dfrac{2}{5}\right)\left(\dfrac{1}{2}x + \dfrac{6}{7}\right)$

$\dfrac{1}{4}x^2 + \dfrac{22}{35}x + \dfrac{12}{35}$

7) $\left(\dfrac{3}{2}n + \dfrac{19}{8}\right)\left(2n - \dfrac{1}{2}\right)$

$3n^2 + 4n - \dfrac{19}{16}$

8) $\left(\dfrac{3}{5}x + \dfrac{7}{4}\right)\left(\dfrac{3}{8}x - \dfrac{13}{3}\right)$

$\dfrac{9}{40}x^2 - \dfrac{311}{160}x - \dfrac{91}{12}$

9) $\left(\dfrac{32}{7}x - \dfrac{25}{7}\right)\left(2x - \dfrac{10}{3}\right)$

$\dfrac{64}{7}x^2 - \dfrac{470}{21}x + \dfrac{250}{21}$

10) $\left(\dfrac{7}{4}x - \dfrac{7}{8}\right)\left(\dfrac{12}{7}x + \dfrac{35}{8}\right)$

$3x^2 + \dfrac{197}{32}x - \dfrac{245}{64}$

11) $\left(2n - \dfrac{1}{2}\right)\left(\dfrac{1}{5}n - \dfrac{6}{5}\right)$

$\dfrac{2}{5}n^2 - \dfrac{5}{2}n + \dfrac{3}{5}$

12) $\left(2x + \dfrac{7}{8}\right)\left(\dfrac{2}{3}x - \dfrac{4}{5}\right)$

$\dfrac{4}{3}x^2 - \dfrac{61}{60}x - \dfrac{7}{10}$

13) $\left(\dfrac{7}{4}x + 2\right)\left(\dfrac{11}{6}x - \dfrac{19}{4}\right)$

$\dfrac{77}{24}x^2 - \dfrac{223}{48}x - \dfrac{19}{2}$

14) $\left(\dfrac{1}{2}m + \dfrac{15}{4}\right)\left(\dfrac{1}{5}m - \dfrac{8}{5}\right)$

$\dfrac{1}{10}m^2 - \dfrac{1}{20}m - 6$

15) $\left(2p + \dfrac{2}{3}\right)\left(\dfrac{9}{2}p - \dfrac{7}{4}\right)$

$9p^2 - \dfrac{1}{2}p - \dfrac{7}{6}$

16) $\left(\dfrac{7}{4}x + \dfrac{43}{5}\right)\left(\dfrac{6}{5}x + 2\right)$

$\dfrac{21}{10}x^2 + \dfrac{691}{50}x + \dfrac{86}{5}$

17) $\left(\dfrac{3}{7}a + \dfrac{23}{5}\right)\left(a + \dfrac{7}{2}\right)$

$\dfrac{3}{7}a^2 + \dfrac{61}{10}a + \dfrac{161}{10}$

18) $\left(\dfrac{14}{5}m + \dfrac{7}{8}\right)\left(\dfrac{29}{6}m + \dfrac{11}{6}\right)$

$\dfrac{203}{15}m^2 + \dfrac{749}{80}m + \dfrac{77}{48}$

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Find each product.

1) $\left(\dfrac{3}{2}x + \dfrac{4}{3}\right)\left(\dfrac{5}{3}x - \dfrac{7}{6}\right)$

2) $\left(\dfrac{1}{2}k + \dfrac{3}{4}\right)\left(\dfrac{7}{8}k - \dfrac{7}{6}\right)$

3) $\left(\dfrac{3}{4}x - \dfrac{1}{2}\right)\left(\dfrac{1}{4}x - \dfrac{1}{2}\right)$

4) $\left(\dfrac{5}{2}k + \dfrac{7}{5}\right)\left(\dfrac{5}{8}k + \dfrac{13}{3}\right)$

5) $\left(\dfrac{31}{8}n - \dfrac{6}{5}\right)\left(\dfrac{33}{7}n - 2\right)$

6) $\left(\dfrac{1}{2}n + \dfrac{29}{7}\right)\left(\dfrac{1}{5}n + \dfrac{5}{3}\right)$

7) $\left(\dfrac{37}{8}v + \dfrac{19}{7}\right)\left(v + \dfrac{12}{7}\right)$

8) $\left(\dfrac{3}{8}n + 7\right)\left(\dfrac{17}{5}n + \dfrac{4}{3}\right)$

9) $\left(\dfrac{5}{3}m + \dfrac{7}{4}\right)\left(\dfrac{23}{6}m - \dfrac{7}{2}\right)$

10) $\left(\dfrac{3}{2}n + \dfrac{3}{2}\right)\left(\dfrac{5}{3}n + \dfrac{5}{2}\right)$

11) $\left(\dfrac{4}{3}n - \dfrac{5}{4}\right)\left(\dfrac{11}{3}n - \dfrac{5}{4}\right)$

12) $\left(\dfrac{3}{2}n + 2\right)\left(5n + \dfrac{8}{5}\right)$

13) $\left(\dfrac{31}{4}r - \dfrac{3}{7}\right)\left(\dfrac{7}{3}r - \dfrac{2}{3}\right)$

14) $\left(2x - \dfrac{3}{2}\right)\left(\dfrac{1}{8}x + \dfrac{17}{6}\right)$

15) $\left(\dfrac{9}{5}x - \dfrac{13}{6}\right)\left(\dfrac{17}{5}x + \dfrac{19}{7}\right)$

16) $\left(\dfrac{5}{2}x + \dfrac{3}{7}\right)\left(2x + \dfrac{1}{2}\right)$

17) $\left(4n + \dfrac{11}{4}\right)\left(\dfrac{23}{8}n - 2\right)$

18) $\left(\dfrac{5}{4}a - 1\right)\left(\dfrac{19}{4}a - \dfrac{23}{8}\right)$

Algebra 1   Name_____

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Find each product.

1) $\left(\dfrac{3}{2}x + \dfrac{4}{3}\right)\left(\dfrac{5}{3}x - \dfrac{7}{6}\right)$

   $\dfrac{5}{2}x^2 + \dfrac{17}{36}x - \dfrac{14}{9}$

2) $\left(\dfrac{1}{2}k + \dfrac{3}{4}\right)\left(\dfrac{7}{8}k - \dfrac{7}{6}\right)$

   $\dfrac{7}{16}k^2 + \dfrac{7}{96}k - \dfrac{7}{8}$

3) $\left(\dfrac{3}{4}x - \dfrac{1}{2}\right)\left(\dfrac{1}{4}x - \dfrac{1}{2}\right)$

   $\dfrac{3}{16}x^2 - \dfrac{1}{2}x + \dfrac{1}{4}$

4) $\left(\dfrac{5}{2}k + \dfrac{7}{5}\right)\left(\dfrac{5}{8}k + \dfrac{13}{3}\right)$

   $\dfrac{25}{16}k^2 + \dfrac{281}{24}k + \dfrac{91}{15}$

5) $\left(\dfrac{31}{8}n - \dfrac{6}{5}\right)\left(\dfrac{33}{7}n - 2\right)$

   $\dfrac{1023}{56}n^2 - \dfrac{1877}{140}n + \dfrac{12}{5}$

6) $\left(\dfrac{1}{2}n + \dfrac{29}{7}\right)\left(\dfrac{1}{5}n + \dfrac{5}{3}\right)$

   $\dfrac{1}{10}n^2 + \dfrac{349}{210}n + \dfrac{145}{21}$

7) $\left(\dfrac{37}{8}v + \dfrac{19}{7}\right)\left(v + \dfrac{12}{7}\right)$

   $\dfrac{37}{8}v^2 + \dfrac{149}{14}v + \dfrac{228}{49}$

8) $\left(\dfrac{3}{8}n + 7\right)\left(\dfrac{17}{5}n + \dfrac{4}{3}\right)$

   $\dfrac{51}{40}n^2 + \dfrac{243}{10}n + \dfrac{28}{3}$

9) $\left(\dfrac{5}{3}m + \dfrac{7}{4}\right)\left(\dfrac{23}{6}m - \dfrac{7}{2}\right)$

   $\dfrac{115}{18}m^2 + \dfrac{7}{8}m - \dfrac{49}{8}$

10) $\left(\dfrac{3}{2}n + \dfrac{3}{2}\right)\left(\dfrac{5}{3}n + \dfrac{5}{2}\right)$

   $\dfrac{5}{2}n^2 + \dfrac{25}{4}n + \dfrac{15}{4}$

11) $\left(\dfrac{4}{3}n - \dfrac{5}{4}\right)\left(\dfrac{11}{3}n - \dfrac{5}{4}\right)$

   $\dfrac{44}{9}n^2 - \dfrac{25}{4}n + \dfrac{25}{16}$

12) $\left(\dfrac{3}{2}n + 2\right)\left(5n + \dfrac{8}{5}\right)$

   $\dfrac{15}{2}n^2 + \dfrac{62}{5}n + \dfrac{16}{5}$

13) $\left(\dfrac{31}{4}r - \dfrac{3}{7}\right)\left(\dfrac{7}{3}r - \dfrac{2}{3}\right)$

   $\dfrac{217}{12}r^2 - \dfrac{37}{6}r + \dfrac{2}{7}$

14) $\left(2x - \dfrac{3}{2}\right)\left(\dfrac{1}{8}x + \dfrac{17}{6}\right)$

   $\dfrac{1}{4}x^2 + \dfrac{263}{48}x - \dfrac{17}{4}$

15) $\left(\dfrac{9}{5}x - \dfrac{13}{6}\right)\left(\dfrac{17}{5}x + \dfrac{19}{7}\right)$

   $\dfrac{153}{25}x^2 - \dfrac{521}{210}x - \dfrac{247}{42}$

16) $\left(\dfrac{5}{2}x + \dfrac{3}{7}\right)\left(2x + \dfrac{1}{2}\right)$

   $5x^2 + \dfrac{59}{28}x + \dfrac{3}{14}$

17) $\left(4n + \dfrac{11}{4}\right)\left(\dfrac{23}{8}n - 2\right)$

   $\dfrac{23}{2}n^2 - \dfrac{3}{32}n - \dfrac{11}{2}$

18) $\left(\dfrac{5}{4}a - 1\right)\left(\dfrac{19}{4}a - \dfrac{23}{8}\right)$

   $\dfrac{95}{16}a^2 - \dfrac{267}{32}a + \dfrac{23}{8}$

Algebra 1

Assignment

Name_____

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Find each product.

1) $\left(\dfrac{18}{7}v - \dfrac{3}{2}\right)\left(\dfrac{1}{4}v - 2\right)$

2) $\left(\dfrac{7}{6}x - \dfrac{9}{5}\right)\left(\dfrac{9}{2}x + \dfrac{15}{8}\right)$

3) $\left(\dfrac{29}{7}n + \dfrac{3}{2}\right)\left(\dfrac{4}{3}n - 5\right)$

4) $\left(\dfrac{5}{3}n - 1\right)\left(\dfrac{13}{3}n + \dfrac{4}{3}\right)$

5) $\left(8x - \dfrac{13}{6}\right)\left(\dfrac{8}{7}x - 1\right)$

6) $\left(\dfrac{23}{5}x - 1\right)\left(\dfrac{18}{5}x + \dfrac{4}{7}\right)$

7) $\left(2m - \dfrac{18}{5}\right)\left(\dfrac{1}{2}m - 1\right)$

8) $\left(v + \dfrac{1}{2}\right)\left(\dfrac{9}{4}v - \dfrac{29}{8}\right)$

9) $\left(\dfrac{22}{7}r - \dfrac{1}{6}\right)\left(\dfrac{9}{2}r + 2\right)$

10) $\left(\dfrac{7}{8}p - 1\right)\left(\dfrac{11}{7}p - \dfrac{16}{7}\right)$

11) $\left(n + \dfrac{3}{2}\right)\left(\dfrac{3}{2}n + 2\right)$

12) $\left(\dfrac{1}{2}v + \dfrac{3}{4}\right)\left(7v + \dfrac{3}{4}\right)$

13) $\left(\dfrac{18}{7}n + 1\right)\left(\dfrac{3}{5}n + \dfrac{15}{8}\right)$

14) $\left(\dfrac{5}{3}v + \dfrac{10}{7}\right)\left(v + \dfrac{4}{5}\right)$

15) $\left(\dfrac{7}{3}x - 8\right)\left(\dfrac{13}{4}x + 1\right)$

16) $\left(\dfrac{6}{5}x - \dfrac{3}{2}\right)\left(\dfrac{3}{2}x - \dfrac{3}{4}\right)$

17) $\left(\dfrac{7}{6}n - 8\right)\left(\dfrac{23}{6}n + \dfrac{8}{5}\right)$

18) $\left(\dfrac{5}{3}k + 2\right)\left(\dfrac{1}{6}k + \dfrac{6}{5}\right)$

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Find each product.

1) $\left(\dfrac{18}{7}v - \dfrac{3}{2}\right)\left(\dfrac{1}{4}v - 2\right)$

   $\dfrac{9}{14}v^2 - \dfrac{309}{56}v + 3$

2) $\left(\dfrac{7}{6}x - \dfrac{9}{5}\right)\left(\dfrac{9}{2}x + \dfrac{15}{8}\right)$

   $\dfrac{21}{4}x^2 - \dfrac{473}{80}x - \dfrac{27}{8}$

3) $\left(\dfrac{29}{7}n + \dfrac{3}{2}\right)\left(\dfrac{4}{3}n - 5\right)$

   $\dfrac{116}{21}n^2 - \dfrac{131}{7}n - \dfrac{15}{2}$

4) $\left(\dfrac{5}{3}n - 1\right)\left(\dfrac{13}{3}n + \dfrac{4}{3}\right)$

   $\dfrac{65}{9}n^2 - \dfrac{19}{9}n - \dfrac{4}{3}$

5) $\left(8x - \dfrac{13}{6}\right)\left(\dfrac{8}{7}x - 1\right)$

   $\dfrac{64}{7}x^2 - \dfrac{220}{21}x + \dfrac{13}{6}$

6) $\left(\dfrac{23}{5}x - 1\right)\left(\dfrac{18}{5}x + \dfrac{4}{7}\right)$

   $\dfrac{414}{25}x^2 - \dfrac{34}{35}x - \dfrac{4}{7}$

7) $\left(2m - \dfrac{18}{5}\right)\left(\dfrac{1}{2}m - 1\right)$

   $m^2 - \dfrac{19}{5}m + \dfrac{18}{5}$

8) $\left(v + \dfrac{1}{2}\right)\left(\dfrac{9}{4}v - \dfrac{29}{8}\right)$

   $\dfrac{9}{4}v^2 - \dfrac{5}{2}v - \dfrac{29}{16}$

9) $\left(\dfrac{22}{7}r - \dfrac{1}{6}\right)\left(\dfrac{9}{2}r + 2\right)$

   $\dfrac{99}{7}r^2 + \dfrac{155}{28}r - \dfrac{1}{3}$

10) $\left(\dfrac{7}{8}p - 1\right)\left(\dfrac{11}{7}p - \dfrac{16}{7}\right)$

    $\dfrac{11}{8}p^2 - \dfrac{25}{7}p + \dfrac{16}{7}$

11) $\left(n + \dfrac{3}{2}\right)\left(\dfrac{3}{2}n + 2\right)$

    $\dfrac{3}{2}n^2 + \dfrac{17}{4}n + 3$

12) $\left(\dfrac{1}{2}v + \dfrac{3}{4}\right)\left(7v + \dfrac{3}{4}\right)$

    $\dfrac{7}{2}v^2 + \dfrac{45}{8}v + \dfrac{9}{16}$

13) $\left(\dfrac{18}{7}n + 1\right)\left(\dfrac{3}{5}n + \dfrac{15}{8}\right)$

    $\dfrac{54}{35}n^2 + \dfrac{759}{140}n + \dfrac{15}{8}$

14) $\left(\dfrac{5}{3}v + \dfrac{10}{7}\right)\left(v + \dfrac{4}{5}\right)$

    $\dfrac{5}{3}v^2 + \dfrac{58}{21}v + \dfrac{8}{7}$

15) $\left(\dfrac{7}{3}x - 8\right)\left(\dfrac{13}{4}x + 1\right)$

    $\dfrac{91}{12}x^2 - \dfrac{71}{3}x - 8$

16) $\left(\dfrac{6}{5}x - \dfrac{3}{2}\right)\left(\dfrac{3}{2}x - \dfrac{3}{4}\right)$

    $\dfrac{9}{5}x^2 - \dfrac{63}{20}x + \dfrac{9}{8}$

17) $\left(\dfrac{7}{6}n - 8\right)\left(\dfrac{23}{6}n + \dfrac{8}{5}\right)$

    $\dfrac{161}{36}n^2 - \dfrac{144}{5}n - \dfrac{64}{5}$

18) $\left(\dfrac{5}{3}k + 2\right)\left(\dfrac{1}{6}k + \dfrac{6}{5}\right)$

    $\dfrac{5}{18}k^2 + \dfrac{7}{3}k + \dfrac{12}{5}$

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Find each product.

1) $\left(\dfrac{19}{6}x + \dfrac{5}{7}\right)\left(\dfrac{1}{7}x - \dfrac{3}{2}\right)$

2) $\left(\dfrac{5}{4}x + 4\right)\left(x - \dfrac{1}{8}\right)$

3) $\left(5x + \dfrac{3}{8}\right)\left(\dfrac{1}{2}x - \dfrac{9}{4}\right)$

4) $\left(a + \dfrac{25}{3}\right)\left(\dfrac{1}{7}a + \dfrac{2}{5}\right)$

5) $\left(\dfrac{4}{3}x - 1\right)\left(\dfrac{9}{8}x - 2\right)$

6) $\left(\dfrac{13}{8}r + \dfrac{2}{3}\right)\left(\dfrac{5}{3}r + \dfrac{1}{2}\right)$

7) $\left(\dfrac{1}{2}k - \dfrac{16}{7}\right)\left(\dfrac{15}{8}k - \dfrac{3}{2}\right)$

8) $\left(\dfrac{7}{6}b - \dfrac{11}{6}\right)\left(\dfrac{15}{8}b + \dfrac{8}{7}\right)$

9) $\left(6p + \dfrac{35}{4}\right)\left(\dfrac{3}{4}p - \dfrac{1}{2}\right)$

10) $\left(\dfrac{1}{6}x - \dfrac{27}{8}\right)\left(\dfrac{33}{7}x + \dfrac{3}{8}\right)$

11) $\left(\dfrac{21}{5}r - \dfrac{3}{2}\right)\left(\dfrac{1}{2}r - \dfrac{14}{5}\right)$

12) $\left(\dfrac{1}{3}n + 2\right)\left(\dfrac{19}{4}n + \dfrac{3}{4}\right)$

13) $\left(\dfrac{1}{6}x - \dfrac{11}{8}\right)\left(\dfrac{1}{3}x - \dfrac{7}{4}\right)$

14) $\left(\dfrac{20}{7}k + \dfrac{47}{8}\right)\left(k + \dfrac{3}{8}\right)$

15) $\left(\dfrac{6}{7}b - 4\right)\left(\dfrac{1}{2}b - \dfrac{5}{7}\right)$

16) $\left(2k - \dfrac{1}{6}\right)\left(\dfrac{15}{8}k - \dfrac{11}{5}\right)$

17) $\left(x - \dfrac{11}{5}\right)\left(x + \dfrac{7}{2}\right)$

18) $\left(\dfrac{17}{4}k - \dfrac{16}{7}\right)\left(\dfrac{11}{6}k + 1\right)$

Algebra 1   Name_____

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Find each product.

1) $\left(\dfrac{19}{6}x + \dfrac{5}{7}\right)\left(\dfrac{1}{7}x - \dfrac{3}{2}\right)$

$\dfrac{19}{42}x^2 - \dfrac{911}{196}x - \dfrac{15}{14}$

2) $\left(\dfrac{5}{4}x + 4\right)\left(x - \dfrac{1}{8}\right)$

$\dfrac{5}{4}x^2 + \dfrac{123}{32}x - \dfrac{1}{2}$

3) $\left(5x + \dfrac{3}{8}\right)\left(\dfrac{1}{2}x - \dfrac{9}{4}\right)$

$\dfrac{5}{2}x^2 - \dfrac{177}{16}x - \dfrac{27}{32}$

4) $\left(a + \dfrac{25}{3}\right)\left(\dfrac{1}{7}a + \dfrac{2}{5}\right)$

$\dfrac{1}{7}a^2 + \dfrac{167}{105}a + \dfrac{10}{3}$

5) $\left(\dfrac{4}{3}x - 1\right)\left(\dfrac{9}{8}x - 2\right)$

$\dfrac{3}{2}x^2 - \dfrac{91}{24}x + 2$

6) $\left(\dfrac{13}{8}r + \dfrac{2}{3}\right)\left(\dfrac{5}{3}r + \dfrac{1}{2}\right)$

$\dfrac{65}{24}r^2 + \dfrac{277}{144}r + \dfrac{1}{3}$

7) $\left(\dfrac{1}{2}k - \dfrac{16}{7}\right)\left(\dfrac{15}{8}k - \dfrac{3}{2}\right)$

$\dfrac{15}{16}k^2 - \dfrac{141}{28}k + \dfrac{24}{7}$

8) $\left(\dfrac{7}{6}b - \dfrac{11}{6}\right)\left(\dfrac{15}{8}b + \dfrac{8}{7}\right)$

$\dfrac{35}{16}b^2 - \dfrac{101}{48}b - \dfrac{44}{21}$

9) $\left(6p + \dfrac{35}{4}\right)\left(\dfrac{3}{4}p - \dfrac{1}{2}\right)$

$\dfrac{9}{2}p^2 + \dfrac{57}{16}p - \dfrac{35}{8}$

10) $\left(\dfrac{1}{6}x - \dfrac{27}{8}\right)\left(\dfrac{33}{7}x + \dfrac{3}{8}\right)$

$\dfrac{11}{14}x^2 - \dfrac{1775}{112}x - \dfrac{81}{64}$

11) $\left(\dfrac{21}{5}r - \dfrac{3}{2}\right)\left(\dfrac{1}{2}r - \dfrac{14}{5}\right)$

$\dfrac{21}{10}r^2 - \dfrac{1251}{100}r + \dfrac{21}{5}$

12) $\left(\dfrac{1}{3}n + 2\right)\left(\dfrac{19}{4}n + \dfrac{3}{4}\right)$

$\dfrac{19}{12}n^2 + \dfrac{39}{4}n + \dfrac{3}{2}$

13) $\left(\dfrac{1}{6}x - \dfrac{11}{8}\right)\left(\dfrac{1}{3}x - \dfrac{7}{4}\right)$

$\dfrac{1}{18}x^2 - \dfrac{3}{4}x + \dfrac{77}{32}$

14) $\left(\dfrac{20}{7}k + \dfrac{47}{8}\right)\left(k + \dfrac{3}{8}\right)$

$\dfrac{20}{7}k^2 + \dfrac{389}{56}k + \dfrac{141}{64}$

15) $\left(\dfrac{6}{7}b - 4\right)\left(\dfrac{1}{2}b - \dfrac{5}{7}\right)$

$\dfrac{3}{7}b^2 - \dfrac{128}{49}b + \dfrac{20}{7}$

16) $\left(2k - \dfrac{1}{6}\right)\left(\dfrac{15}{8}k - \dfrac{11}{5}\right)$

$\dfrac{15}{4}k^2 - \dfrac{377}{80}k + \dfrac{11}{30}$

17) $\left(x - \dfrac{11}{5}\right)\left(x + \dfrac{7}{2}\right)$

$x^2 + \dfrac{13}{10}x - \dfrac{77}{10}$

18) $\left(\dfrac{17}{4}k - \dfrac{16}{7}\right)\left(\dfrac{11}{6}k + 1\right)$

$\dfrac{187}{24}k^2 + \dfrac{5}{84}k - \dfrac{16}{7}$

Algebra 1   Name_____

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Find each product.

1) $\left(\dfrac{1}{5}v + \dfrac{1}{2}\right)\left(\dfrac{17}{4}v + \dfrac{5}{2}\right)$

2) $\left(\dfrac{1}{2}a + 1\right)\left(2a + \dfrac{2}{3}\right)$

3) $\left(\dfrac{13}{3}p + \dfrac{17}{6}\right)\left(\dfrac{8}{7}p - 1\right)$

4) $\left(\dfrac{3}{2}n - \dfrac{3}{2}\right)\left(\dfrac{9}{7}n + \dfrac{3}{8}\right)$

5) $\left(\dfrac{36}{7}r - \dfrac{5}{2}\right)\left(\dfrac{9}{2}r + \dfrac{13}{4}\right)$

6) $\left(5a + \dfrac{9}{7}\right)\left(\dfrac{2}{5}a - \dfrac{5}{2}\right)$

7) $\left(\dfrac{1}{2}p - \dfrac{4}{3}\right)\left(\dfrac{3}{2}p - \dfrac{11}{6}\right)$

8) $\left(\dfrac{39}{8}x + \dfrac{10}{7}\right)\left(\dfrac{2}{7}x + \dfrac{4}{3}\right)$

9) $\left(\dfrac{1}{7}x + 4\right)\left(\dfrac{7}{2}x - \dfrac{17}{6}\right)$

10) $\left(\dfrac{25}{8}p + \dfrac{13}{8}\right)\left(\dfrac{5}{4}p - 2\right)$

11) $\left(\dfrac{4}{3}x + \dfrac{20}{7}\right)\left(\dfrac{3}{8}x + \dfrac{3}{2}\right)$

12) $\left(6x - \dfrac{8}{7}\right)\left(2x - \dfrac{3}{4}\right)$

13) $\left(\dfrac{25}{8}v + \dfrac{27}{7}\right)\left(\dfrac{9}{4}v + \dfrac{7}{3}\right)$

14) $\left(\dfrac{12}{7}p - \dfrac{5}{7}\right)\left(\dfrac{2}{5}p + \dfrac{6}{7}\right)$

15) $\left(\dfrac{5}{3}a - \dfrac{19}{6}\right)\left(2a + \dfrac{1}{6}\right)$

16) $\left(x - \dfrac{3}{4}\right)\left(\dfrac{3}{2}x + \dfrac{14}{5}\right)$

17) $\left(\dfrac{3}{2}r + 6\right)\left(\dfrac{6}{7}r - \dfrac{8}{5}\right)$

18) $\left(\dfrac{3}{2}x - \dfrac{25}{8}\right)\left(\dfrac{5}{2}x + \dfrac{6}{7}\right)$

Algebra 1   Name_____

Assignment   Date_____ Period_____

Find each product.

1) $\left(\dfrac{1}{5}v + \dfrac{1}{2}\right)\left(\dfrac{17}{4}v + \dfrac{5}{2}\right)$

$\dfrac{17}{20}v^2 + \dfrac{21}{8}v + \dfrac{5}{4}$

2) $\left(\dfrac{1}{2}a + 1\right)\left(2a + \dfrac{2}{3}\right)$

$a^2 + \dfrac{7}{3}a + \dfrac{2}{3}$

3) $\left(\dfrac{13}{3}p + \dfrac{17}{6}\right)\left(\dfrac{8}{7}p - 1\right)$

$\dfrac{104}{21}p^2 - \dfrac{23}{21}p - \dfrac{17}{6}$

4) $\left(\dfrac{3}{2}n - \dfrac{3}{2}\right)\left(\dfrac{9}{7}n + \dfrac{3}{8}\right)$

$\dfrac{27}{14}n^2 - \dfrac{153}{112}n - \dfrac{9}{16}$

5) $\left(\dfrac{36}{7}r - \dfrac{5}{2}\right)\left(\dfrac{9}{2}r + \dfrac{13}{4}\right)$

$\dfrac{162}{7}r^2 + \dfrac{153}{28}r - \dfrac{65}{8}$

6) $\left(5a + \dfrac{9}{7}\right)\left(\dfrac{2}{5}a - \dfrac{5}{2}\right)$

$2a^2 - \dfrac{839}{70}a - \dfrac{45}{14}$

7) $\left(\dfrac{1}{2}p - \dfrac{4}{3}\right)\left(\dfrac{3}{2}p - \dfrac{11}{6}\right)$

$\dfrac{3}{4}p^2 - \dfrac{35}{12}p + \dfrac{22}{9}$

8) $\left(\dfrac{39}{8}x + \dfrac{10}{7}\right)\left(\dfrac{2}{7}x + \dfrac{4}{3}\right)$

$\dfrac{39}{28}x^2 + \dfrac{677}{98}x + \dfrac{40}{21}$

9) $\left(\dfrac{1}{7}x + 4\right)\left(\dfrac{7}{2}x - \dfrac{17}{6}\right)$

$\dfrac{1}{2}x^2 + \dfrac{571}{42}x - \dfrac{34}{3}$

10) $\left(\dfrac{25}{8}p + \dfrac{13}{8}\right)\left(\dfrac{5}{4}p - 2\right)$

$\dfrac{125}{32}p^2 - \dfrac{135}{32}p - \dfrac{13}{4}$

11) $\left(\dfrac{4}{3}x + \dfrac{20}{7}\right)\left(\dfrac{3}{8}x + \dfrac{3}{2}\right)$

$\dfrac{1}{2}x^2 + \dfrac{43}{14}x + \dfrac{30}{7}$

12) $\left(6x - \dfrac{8}{7}\right)\left(2x - \dfrac{3}{4}\right)$

$12x^2 - \dfrac{95}{14}x + \dfrac{6}{7}$

13) $\left(\dfrac{25}{8}v + \dfrac{27}{7}\right)\left(\dfrac{9}{4}v + \dfrac{7}{3}\right)$

$\dfrac{225}{32}v^2 + \dfrac{2683}{168}v + 9$

14) $\left(\dfrac{12}{7}p - \dfrac{5}{7}\right)\left(\dfrac{2}{5}p + \dfrac{6}{7}\right)$

$\dfrac{24}{35}p^2 + \dfrac{58}{49}p - \dfrac{30}{49}$

15) $\left(\dfrac{5}{3}a - \dfrac{19}{6}\right)\left(2a + \dfrac{1}{6}\right)$

$\dfrac{10}{3}a^2 - \dfrac{109}{18}a - \dfrac{19}{36}$

16) $\left(x - \dfrac{3}{4}\right)\left(\dfrac{3}{2}x + \dfrac{14}{5}\right)$

$\dfrac{3}{2}x^2 + \dfrac{67}{40}x - \dfrac{21}{10}$

17) $\left(\dfrac{3}{2}r + 6\right)\left(\dfrac{6}{7}r - \dfrac{8}{5}\right)$

$\dfrac{9}{7}r^2 + \dfrac{96}{35}r - \dfrac{48}{5}$

18) $\left(\dfrac{3}{2}x - \dfrac{25}{8}\right)\left(\dfrac{5}{2}x + \dfrac{6}{7}\right)$

$\dfrac{15}{4}x^2 - \dfrac{731}{112}x - \dfrac{75}{28}$

Algebra 1

Name_____

Assignment

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Find each product.

1) $\left(\dfrac{4}{3}b + \dfrac{19}{8}\right)\left(5b - \dfrac{25}{8}\right)$

2) $\left(\dfrac{4}{7}v - \dfrac{19}{6}\right)\left(\dfrac{2}{7}v - \dfrac{27}{8}\right)$

3) $\left(\dfrac{27}{8}k + \dfrac{6}{5}\right)\left(\dfrac{35}{8}k + 7\right)$

4) $\left(\dfrac{3}{4}n + \dfrac{31}{5}\right)\left(5n + \dfrac{9}{2}\right)$

5) $\left(\dfrac{1}{2}v - \dfrac{9}{4}\right)\left(\dfrac{19}{6}v - \dfrac{4}{3}\right)$

6) $\left(\dfrac{9}{2}x + \dfrac{34}{7}\right)\left(\dfrac{8}{7}x - \dfrac{5}{3}\right)$

7) $\left(\dfrac{37}{8}x - \dfrac{4}{3}\right)\left(\dfrac{1}{7}x + 1\right)$

8) $\left(\dfrac{7}{4}m - \dfrac{8}{5}\right)\left(\dfrac{1}{7}m + \dfrac{5}{4}\right)$

9) $\left(\dfrac{3}{8}x - \dfrac{21}{8}\right)\left(\dfrac{17}{6}x + \dfrac{5}{8}\right)$

10) $\left(\dfrac{9}{2}r + \dfrac{8}{7}\right)\left(\dfrac{3}{2}r - \dfrac{7}{6}\right)$

11) $\left(\dfrac{19}{6}k + \dfrac{13}{7}\right)\left(\dfrac{9}{8}k + \dfrac{19}{6}\right)$

12) $\left(\dfrac{1}{2}v + \dfrac{30}{7}\right)\left(\dfrac{4}{3}v - \dfrac{5}{3}\right)$

13) $\left(\dfrac{1}{2}b - \dfrac{4}{3}\right)\left(\dfrac{4}{3}b - \dfrac{7}{3}\right)$

14) $\left(\dfrac{13}{4}n + \dfrac{1}{3}\right)\left(\dfrac{1}{2}n - \dfrac{19}{7}\right)$

15) $\left(2n + \dfrac{5}{3}\right)\left(\dfrac{3}{4}n - \dfrac{10}{7}\right)$

16) $\left(\dfrac{5}{3}b + \dfrac{1}{6}\right)\left(2b + \dfrac{7}{8}\right)$

17) $\left(\dfrac{6}{7}x + \dfrac{17}{7}\right)\left(\dfrac{19}{4}x + \dfrac{5}{2}\right)$

18) $\left(\dfrac{26}{7}x + \dfrac{4}{3}\right)\left(\dfrac{14}{3}x + \dfrac{1}{2}\right)$

Algebra 1

Assignment

Find each product.

1) $\left(\dfrac{4}{3}b + \dfrac{19}{8}\right)\left(5b - \dfrac{25}{8}\right)$

$\dfrac{20}{3}b^2 + \dfrac{185}{24}b - \dfrac{475}{64}$

2) $\left(\dfrac{4}{7}v - \dfrac{19}{6}\right)\left(\dfrac{2}{7}v - \dfrac{27}{8}\right)$

$\dfrac{8}{49}v^2 - \dfrac{17}{6}v + \dfrac{171}{16}$

3) $\left(\dfrac{27}{8}k + \dfrac{6}{5}\right)\left(\dfrac{35}{8}k + 7\right)$

$\dfrac{945}{64}k^2 + \dfrac{231}{8}k + \dfrac{42}{5}$

4) $\left(\dfrac{3}{4}n + \dfrac{31}{5}\right)\left(5n + \dfrac{9}{2}\right)$

$\dfrac{15}{4}n^2 + \dfrac{275}{8}n + \dfrac{279}{10}$

5) $\left(\dfrac{1}{2}v - \dfrac{9}{4}\right)\left(\dfrac{19}{6}v - \dfrac{4}{3}\right)$

$\dfrac{19}{12}v^2 - \dfrac{187}{24}v + 3$

6) $\left(\dfrac{9}{2}x + \dfrac{34}{7}\right)\left(\dfrac{8}{7}x - \dfrac{5}{3}\right)$

$\dfrac{36}{7}x^2 - \dfrac{191}{98}x - \dfrac{170}{21}$

7) $\left(\dfrac{37}{8}x - \dfrac{4}{3}\right)\left(\dfrac{1}{7}x + 1\right)$

$\dfrac{37}{56}x^2 + \dfrac{745}{168}x - \dfrac{4}{3}$

8) $\left(\dfrac{7}{4}m - \dfrac{8}{5}\right)\left(\dfrac{1}{7}m + \dfrac{5}{4}\right)$

$\dfrac{1}{4}m^2 + \dfrac{1097}{560}m - 2$

9) $\left(\dfrac{3}{8}x - \dfrac{21}{8}\right)\left(\dfrac{17}{6}x + \dfrac{5}{8}\right)$

$\dfrac{17}{16}x^2 - \dfrac{461}{64}x - \dfrac{105}{64}$

10) $\left(\dfrac{9}{2}r + \dfrac{8}{7}\right)\left(\dfrac{3}{2}r - \dfrac{7}{6}\right)$

$\dfrac{27}{4}r^2 - \dfrac{99}{28}r - \dfrac{4}{3}$

11) $\left(\dfrac{19}{6}k + \dfrac{13}{7}\right)\left(\dfrac{9}{8}k + \dfrac{19}{6}\right)$

$\dfrac{57}{16}k^2 + \dfrac{6107}{504}k + \dfrac{247}{42}$

12) $\left(\dfrac{1}{2}v + \dfrac{30}{7}\right)\left(\dfrac{4}{3}v - \dfrac{5}{3}\right)$

$\dfrac{2}{3}v^2 + \dfrac{205}{42}v - \dfrac{50}{7}$

13) $\left(\dfrac{1}{2}b - \dfrac{4}{3}\right)\left(\dfrac{4}{3}b - \dfrac{7}{3}\right)$

$\dfrac{2}{3}b^2 - \dfrac{53}{18}b + \dfrac{28}{9}$

14) $\left(\dfrac{13}{4}n + \dfrac{1}{3}\right)\left(\dfrac{1}{2}n - \dfrac{19}{7}\right)$

$\dfrac{13}{8}n^2 - \dfrac{727}{84}n - \dfrac{19}{21}$

15) $\left(2n + \dfrac{5}{3}\right)\left(\dfrac{3}{4}n - \dfrac{10}{7}\right)$

$\dfrac{3}{2}n^2 - \dfrac{45}{28}n - \dfrac{50}{21}$

16) $\left(\dfrac{5}{3}b + \dfrac{1}{6}\right)\left(2b + \dfrac{7}{8}\right)$

$\dfrac{10}{3}b^2 + \dfrac{43}{24}b + \dfrac{7}{48}$

17) $\left(\dfrac{6}{7}x + \dfrac{17}{7}\right)\left(\dfrac{19}{4}x + \dfrac{5}{2}\right)$

$\dfrac{57}{14}x^2 + \dfrac{383}{28}x + \dfrac{85}{14}$

18) $\left(\dfrac{26}{7}x + \dfrac{4}{3}\right)\left(\dfrac{14}{3}x + \dfrac{1}{2}\right)$

$\dfrac{52}{3}x^2 + \dfrac{509}{63}x + \dfrac{2}{3}$

Algebra 1

Assignment

Find each product.

1) $\left(\frac{13}{8}b + \frac{1}{7}\right)\left(\frac{17}{8}b - \frac{8}{5}\right)$

2) $\left(\frac{11}{7}p + \frac{7}{5}\right)\left(\frac{1}{3}p - \frac{11}{3}\right)$

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

4) $\left(\frac{10}{3}x + 1\right)\left(\frac{2}{5}x + \frac{5}{4}\right)$

5) $\left(\frac{7}{8}b + \frac{29}{6}\right)\left(\frac{4}{5}b + \frac{7}{5}\right)$

6) $\left(\frac{12}{7}a - \frac{15}{4}\right)\left(\frac{17}{4}a + \frac{15}{8}\right)$

7) $\left(\frac{5}{3}p + \frac{5}{6}\right)\left(\frac{15}{8}p - \frac{11}{3}\right)$

8) $\left(\frac{19}{4}n - \frac{6}{5}\right)\left(\frac{11}{3}n + 1\right)$

9) $\left(\frac{7}{3}n - \frac{7}{4}\right)\left(\frac{5}{6}n + \frac{27}{7}\right)$

10) $\left(\frac{1}{3}x + 4\right)\left(\frac{21}{5}x - \frac{7}{4}\right)$

11) $\left(\frac{8}{7}r + \frac{1}{2}\right)\left(\frac{5}{4}r + \frac{25}{6}\right)$

12) $\left(n + \frac{7}{2}\right)\left(\frac{24}{7}n - 1\right)$

13) $\left(\frac{11}{7}p - \frac{31}{8}\right)\left(\frac{7}{4}p + \frac{11}{4}\right)$

14) $\left(\frac{11}{7}n - 6\right)\left(\frac{17}{6}n + \frac{1}{2}\right)$

15) $\left(\frac{11}{3}a - 2\right)\left(\frac{4}{3}a - 1\right)$

16) $\left(\frac{6}{7}n - \frac{11}{6}\right)\left(\frac{2}{3}n + \frac{3}{2}\right)$

17) $\left(\frac{11}{4}x - \frac{6}{5}\right)\left(\frac{7}{2}x + \frac{5}{3}\right)$

18) $\left(\frac{14}{3}x + \frac{12}{7}\right)\left(\frac{35}{8}x - \frac{11}{4}\right)$

Algebra 1   Name_____

Assignment   Date_____ Period____

Find each product.

1) $\left(\dfrac{13}{8}b + \dfrac{1}{7}\right)\left(\dfrac{17}{8}b - \dfrac{8}{5}\right)$

$\dfrac{221}{64}b^2 - \dfrac{643}{280}b - \dfrac{8}{35}$

2) $\left(\dfrac{11}{7}p + \dfrac{7}{5}\right)\left(\dfrac{1}{3}p - \dfrac{11}{3}\right)$

$\dfrac{11}{21}p^2 - \dfrac{556}{105}p - \dfrac{77}{15}$

3) $\left(\dfrac{3}{2}n - \dfrac{1}{7}\right)\left(\dfrac{1}{6}n + \dfrac{2}{5}\right)$

$\dfrac{1}{4}n^2 + \dfrac{121}{210}n - \dfrac{2}{35}$

4) $\left(\dfrac{10}{3}x + 1\right)\left(\dfrac{2}{5}x + \dfrac{5}{4}\right)$

$\dfrac{4}{3}x^2 + \dfrac{137}{30}x + \dfrac{5}{4}$

5) $\left(\dfrac{7}{8}b + \dfrac{29}{6}\right)\left(\dfrac{4}{5}b + \dfrac{7}{5}\right)$

$\dfrac{7}{10}b^2 + \dfrac{611}{120}b + \dfrac{203}{30}$

6) $\left(\dfrac{12}{7}a - \dfrac{15}{4}\right)\left(\dfrac{17}{4}a + \dfrac{15}{8}\right)$

$\dfrac{51}{7}a^2 - \dfrac{1425}{112}a - \dfrac{225}{32}$

7) $\left(\dfrac{5}{3}p + \dfrac{5}{6}\right)\left(\dfrac{15}{8}p - \dfrac{11}{3}\right)$

$\dfrac{25}{8}p^2 - \dfrac{655}{144}p - \dfrac{55}{18}$

8) $\left(\dfrac{19}{4}n - \dfrac{6}{5}\right)\left(\dfrac{11}{3}n + 1\right)$

$\dfrac{209}{12}n^2 + \dfrac{7}{20}n - \dfrac{6}{5}$

9) $\left(\dfrac{7}{3}n - \dfrac{7}{4}\right)\left(\dfrac{5}{6}n + \dfrac{27}{7}\right)$

$\dfrac{35}{18}n^2 + \dfrac{181}{24}n - \dfrac{27}{4}$

10) $\left(\dfrac{1}{3}x + 4\right)\left(\dfrac{21}{5}x - \dfrac{7}{4}\right)$

$\dfrac{7}{5}x^2 + \dfrac{973}{60}x - 7$

11) $\left(\dfrac{8}{7}r + \dfrac{1}{2}\right)\left(\dfrac{5}{4}r + \dfrac{25}{6}\right)$

$\dfrac{10}{7}r^2 + \dfrac{905}{168}r + \dfrac{25}{12}$

12) $\left(n + \dfrac{7}{2}\right)\left(\dfrac{24}{7}n - 1\right)$

$\dfrac{24}{7}n^2 + 11n - \dfrac{7}{2}$

13) $\left(\dfrac{11}{7}p - \dfrac{31}{8}\right)\left(\dfrac{7}{4}p + \dfrac{11}{4}\right)$

$\dfrac{11}{4}p^2 - \dfrac{551}{224}p - \dfrac{341}{32}$

14) $\left(\dfrac{11}{7}n - 6\right)\left(\dfrac{17}{6}n + \dfrac{1}{2}\right)$

$\dfrac{187}{42}n^2 - \dfrac{227}{14}n - 3$

15) $\left(\dfrac{11}{3}a - 2\right)\left(\dfrac{4}{3}a - 1\right)$

$\dfrac{44}{9}a^2 - \dfrac{19}{3}a + 2$

16) $\left(\dfrac{6}{7}n - \dfrac{11}{6}\right)\left(\dfrac{2}{3}n + \dfrac{3}{2}\right)$

$\dfrac{4}{7}n^2 + \dfrac{4}{63}n - \dfrac{11}{4}$

17) $\left(\dfrac{11}{4}x - \dfrac{6}{5}\right)\left(\dfrac{7}{2}x + \dfrac{5}{3}\right)$

$\dfrac{77}{8}x^2 + \dfrac{23}{60}x - 2$

18) $\left(\dfrac{14}{3}x + \dfrac{12}{7}\right)\left(\dfrac{35}{8}x - \dfrac{11}{4}\right)$

$\dfrac{245}{12}x^2 - \dfrac{16}{3}x - \dfrac{33}{7}$

Algebra 1   Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(x - \dfrac{1}{2} \right)\left(\dfrac{5}{3}x - \dfrac{3}{4} \right)$

2) $\left(\dfrac{19}{6}r - \dfrac{2}{3} \right)\left(\dfrac{1}{2}r + \dfrac{1}{2} \right)$

3) $\left(\dfrac{5}{4}k - 1 \right)\left(\dfrac{3}{2}k - \dfrac{9}{7} \right)$

4) $\left(\dfrac{23}{6}n + \dfrac{5}{3} \right)\left(\dfrac{3}{4}n + \dfrac{29}{6} \right)$

5) $\left(\dfrac{1}{2}k + \dfrac{9}{8} \right)\left(\dfrac{25}{6}k - \dfrac{1}{3} \right)$

6) $\left(\dfrac{15}{7}b - \dfrac{21}{8} \right)\left(\dfrac{1}{2}b - \dfrac{24}{7} \right)$

7) $\left(\dfrac{1}{4}v + \dfrac{1}{2} \right)\left(\dfrac{23}{6}v + \dfrac{13}{8} \right)$

8) $\left(\dfrac{8}{5}n + \dfrac{17}{5} \right)\left(\dfrac{2}{3}n - 1 \right)$

9) $\left(\dfrac{3}{7}m - \dfrac{2}{3} \right)\left(\dfrac{3}{7}m - \dfrac{6}{5} \right)$

10) $\left(\dfrac{3}{7}x + \dfrac{7}{2} \right)\left(\dfrac{9}{7}x + \dfrac{17}{6} \right)$

11) $\left(\dfrac{15}{8}m + \dfrac{15}{4} \right)\left(\dfrac{10}{7}m - \dfrac{3}{2} \right)$

12) $\left(\dfrac{19}{8}x - \dfrac{5}{4} \right)\left(\dfrac{7}{4}x + \dfrac{7}{2} \right)$

13) $\left(\dfrac{1}{5}x - \dfrac{9}{4} \right)\left(\dfrac{1}{2}x - \dfrac{11}{6} \right)$

14) $\left(\dfrac{3}{4}x + \dfrac{9}{8} \right)\left(2x + \dfrac{17}{4} \right)$

15) $\left(\dfrac{5}{6}x + \dfrac{8}{3} \right)\left(\dfrac{25}{6}x - \dfrac{5}{7} \right)$

16) $\left(\dfrac{19}{6}x - \dfrac{12}{7} \right)\left(\dfrac{15}{4}x - \dfrac{2}{7} \right)$

17) $\left(\dfrac{37}{8}r + 1 \right)\left(\dfrac{5}{2}r + 2 \right)$

18) $\left(\dfrac{3}{2}k + \dfrac{4}{3} \right)\left(\dfrac{7}{3}k - \dfrac{25}{6} \right)$

Algebra 1   Name_____

Assignment   Date_____ Period____

Find each product.

1) $\left(x - \dfrac{1}{2}\right)\left(\dfrac{5}{3}x - \dfrac{3}{4}\right)$

$\dfrac{5}{3}x^2 - \dfrac{19}{12}x + \dfrac{3}{8}$

2) $\left(\dfrac{19}{6}r - \dfrac{2}{3}\right)\left(\dfrac{1}{2}r + \dfrac{1}{2}\right)$

$\dfrac{19}{12}r^2 + \dfrac{5}{4}r - \dfrac{1}{3}$

3) $\left(\dfrac{5}{4}k - 1\right)\left(\dfrac{3}{2}k - \dfrac{9}{7}\right)$

$\dfrac{15}{8}k^2 - \dfrac{87}{28}k + \dfrac{9}{7}$

4) $\left(\dfrac{23}{6}n + \dfrac{5}{3}\right)\left(\dfrac{3}{4}n + \dfrac{29}{6}\right)$

$\dfrac{23}{8}n^2 + \dfrac{178}{9}n + \dfrac{145}{18}$

5) $\left(\dfrac{1}{2}k + \dfrac{9}{8}\right)\left(\dfrac{25}{6}k - \dfrac{1}{3}\right)$

$\dfrac{25}{12}k^2 + \dfrac{217}{48}k - \dfrac{3}{8}$

6) $\left(\dfrac{15}{7}b - \dfrac{21}{8}\right)\left(\dfrac{1}{2}b - \dfrac{24}{7}\right)$

$\dfrac{15}{14}b^2 - \dfrac{6789}{784}b + 9$

7) $\left(\dfrac{1}{4}v + \dfrac{1}{2}\right)\left(\dfrac{23}{6}v + \dfrac{13}{8}\right)$

$\dfrac{23}{24}v^2 + \dfrac{223}{96}v + \dfrac{13}{16}$

8) $\left(\dfrac{8}{5}n + \dfrac{17}{5}\right)\left(\dfrac{2}{3}n - 1\right)$

$\dfrac{16}{15}n^2 + \dfrac{2}{3}n - \dfrac{17}{5}$

9) $\left(\dfrac{3}{7}m - \dfrac{2}{3}\right)\left(\dfrac{3}{7}m - \dfrac{6}{5}\right)$

$\dfrac{9}{49}m^2 - \dfrac{4}{5}m + \dfrac{4}{5}$

10) $\left(\dfrac{3}{7}x + \dfrac{7}{2}\right)\left(\dfrac{9}{7}x + \dfrac{17}{6}\right)$

$\dfrac{27}{49}x^2 + \dfrac{40}{7}x + \dfrac{119}{12}$

11) $\left(\dfrac{15}{8}m + \dfrac{15}{4}\right)\left(\dfrac{10}{7}m - \dfrac{3}{2}\right)$

$\dfrac{75}{28}m^2 + \dfrac{285}{112}m - \dfrac{45}{8}$

12) $\left(\dfrac{19}{8}x - \dfrac{5}{4}\right)\left(\dfrac{7}{4}x + \dfrac{7}{2}\right)$

$\dfrac{133}{32}x^2 + \dfrac{49}{8}x - \dfrac{35}{8}$

13) $\left(\dfrac{1}{5}x - \dfrac{9}{4}\right)\left(\dfrac{1}{2}x - \dfrac{11}{6}\right)$

$\dfrac{1}{10}x^2 - \dfrac{179}{120}x + \dfrac{33}{8}$

14) $\left(\dfrac{3}{4}x + \dfrac{9}{8}\right)\left(2x + \dfrac{17}{4}\right)$

$\dfrac{3}{2}x^2 + \dfrac{87}{16}x + \dfrac{153}{32}$

15) $\left(\dfrac{5}{6}x + \dfrac{8}{3}\right)\left(\dfrac{25}{6}x - \dfrac{5}{7}\right)$

$\dfrac{125}{36}x^2 + \dfrac{1325}{126}x - \dfrac{40}{21}$

16) $\left(\dfrac{19}{6}x - \dfrac{12}{7}\right)\left(\dfrac{15}{4}x - \dfrac{2}{7}\right)$

$\dfrac{95}{8}x^2 - \dfrac{22}{3}x + \dfrac{24}{49}$

17) $\left(\dfrac{37}{8}r + 1\right)\left(\dfrac{5}{2}r + 2\right)$

$\dfrac{185}{16}r^2 + \dfrac{47}{4}r + 2$

18) $\left(\dfrac{3}{2}k + \dfrac{4}{3}\right)\left(\dfrac{7}{3}k - \dfrac{25}{6}\right)$

$\dfrac{7}{2}k^2 - \dfrac{113}{36}k - \dfrac{50}{9}$

Algebra 1

Assignment

Find each product.

1) $\left(\dfrac{3}{2}m - \dfrac{19}{6}\right)\left(m - \dfrac{19}{6}\right)$

2) $\left(\dfrac{1}{2}x - 2\right)\left(\dfrac{9}{5}x + \dfrac{8}{5}\right)$

3) $\left(\dfrac{11}{3}v + \dfrac{32}{7}\right)\left(\dfrac{7}{4}v - 1\right)$

4) $\left(\dfrac{11}{5}k - 1\right)\left(\dfrac{6}{7}k + \dfrac{11}{4}\right)$

5) $\left(\dfrac{1}{2}v - 6\right)\left(v + \dfrac{8}{3}\right)$

6) $\left(\dfrac{3}{2}n + \dfrac{1}{6}\right)\left(2n - \dfrac{11}{8}\right)$

7) $\left(2n - \dfrac{20}{3}\right)\left(\dfrac{16}{7}n - \dfrac{7}{4}\right)$

8) $\left(\dfrac{3}{8}v + \dfrac{1}{5}\right)\left(\dfrac{9}{8}v - \dfrac{5}{4}\right)$

9) $\left(\dfrac{11}{3}x + \dfrac{3}{7}\right)\left(\dfrac{1}{3}x - \dfrac{1}{3}\right)$

10) $\left(\dfrac{15}{8}x + \dfrac{7}{6}\right)\left(x - \dfrac{9}{8}\right)$

11) $\left(\dfrac{11}{7}b - \dfrac{1}{2}\right)\left(\dfrac{1}{5}b + \dfrac{19}{6}\right)$

12) $\left(\dfrac{11}{4}m + \dfrac{11}{3}\right)\left(\dfrac{1}{3}m + \dfrac{9}{2}\right)$

13) $\left(\dfrac{16}{5}m + \dfrac{3}{2}\right)\left(\dfrac{7}{2}m + \dfrac{7}{2}\right)$

14) $\left(\dfrac{2}{3}n - \dfrac{19}{5}\right)\left(\dfrac{1}{5}n - \dfrac{13}{4}\right)$

15) $\left(\dfrac{17}{6}n - \dfrac{15}{4}\right)\left(\dfrac{1}{6}n - \dfrac{6}{5}\right)$

16) $\left(\dfrac{1}{2}b + \dfrac{16}{5}\right)\left(\dfrac{26}{7}b + \dfrac{9}{2}\right)$

17) $\left(\dfrac{6}{5}a + \dfrac{3}{2}\right)\left(\dfrac{3}{5}a - 1\right)$

18) $\left(2n + \dfrac{1}{2}\right)\left(\dfrac{1}{2}n + \dfrac{5}{4}\right)$

Algebra 1   Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\dfrac{3}{2}m - \dfrac{19}{6}\right)\left(m - \dfrac{19}{6}\right)$

$\dfrac{3}{2}m^2 - \dfrac{95}{12}m + \dfrac{361}{36}$

2) $\left(\dfrac{1}{2}x - 2\right)\left(\dfrac{9}{5}x + \dfrac{8}{5}\right)$

$\dfrac{9}{10}x^2 - \dfrac{14}{5}x - \dfrac{16}{5}$

3) $\left(\dfrac{11}{3}v + \dfrac{32}{7}\right)\left(\dfrac{7}{4}v - 1\right)$

$\dfrac{77}{12}v^2 + \dfrac{13}{3}v - \dfrac{32}{7}$

4) $\left(\dfrac{11}{5}k - 1\right)\left(\dfrac{6}{7}k + \dfrac{11}{4}\right)$

$\dfrac{66}{35}k^2 + \dfrac{727}{140}k - \dfrac{11}{4}$

5) $\left(\dfrac{1}{2}v - 6\right)\left(v + \dfrac{8}{3}\right)$

$\dfrac{1}{2}v^2 - \dfrac{14}{3}v - 16$

6) $\left(\dfrac{3}{2}n + \dfrac{1}{6}\right)\left(2n - \dfrac{11}{8}\right)$

$3n^2 - \dfrac{83}{48}n - \dfrac{11}{48}$

7) $\left(2n - \dfrac{20}{3}\right)\left(\dfrac{16}{7}n - \dfrac{7}{4}\right)$

$\dfrac{32}{7}n^2 - \dfrac{787}{42}n + \dfrac{35}{3}$

8) $\left(\dfrac{3}{8}v + \dfrac{1}{5}\right)\left(\dfrac{9}{8}v - \dfrac{5}{4}\right)$

$\dfrac{27}{64}v^2 - \dfrac{39}{160}v - \dfrac{1}{4}$

9) $\left(\dfrac{11}{3}x + \dfrac{3}{7}\right)\left(\dfrac{1}{3}x - \dfrac{1}{3}\right)$

$\dfrac{11}{9}x^2 - \dfrac{68}{63}x - \dfrac{1}{7}$

10) $\left(\dfrac{15}{8}x + \dfrac{7}{6}\right)\left(x - \dfrac{9}{8}\right)$

$\dfrac{15}{8}x^2 - \dfrac{181}{192}x - \dfrac{21}{16}$

11) $\left(\dfrac{11}{7}b - \dfrac{1}{2}\right)\left(\dfrac{1}{5}b + \dfrac{19}{6}\right)$

$\dfrac{11}{35}b^2 + \dfrac{512}{105}b - \dfrac{19}{12}$

12) $\left(\dfrac{11}{4}m + \dfrac{11}{3}\right)\left(\dfrac{1}{3}m + \dfrac{9}{2}\right)$

$\dfrac{11}{12}m^2 + \dfrac{979}{72}m + \dfrac{33}{2}$

13) $\left(\dfrac{16}{5}m + \dfrac{3}{2}\right)\left(\dfrac{7}{2}m + \dfrac{7}{2}\right)$

$\dfrac{56}{5}m^2 + \dfrac{329}{20}m + \dfrac{21}{4}$

14) $\left(\dfrac{2}{3}n - \dfrac{19}{5}\right)\left(\dfrac{1}{5}n - \dfrac{13}{4}\right)$

$\dfrac{2}{15}n^2 - \dfrac{439}{150}n + \dfrac{247}{20}$

15) $\left(\dfrac{17}{6}n - \dfrac{15}{4}\right)\left(\dfrac{1}{6}n - \dfrac{6}{5}\right)$

$\dfrac{17}{36}n^2 - \dfrac{161}{40}n + \dfrac{9}{2}$

16) $\left(\dfrac{1}{2}b + \dfrac{16}{5}\right)\left(\dfrac{26}{7}b + \dfrac{9}{2}\right)$

$\dfrac{13}{7}b^2 + \dfrac{1979}{140}b + \dfrac{72}{5}$

17) $\left(\dfrac{6}{5}a + \dfrac{3}{2}\right)\left(\dfrac{3}{5}a - 1\right)$

$\dfrac{18}{25}a^2 - \dfrac{3}{10}a - \dfrac{3}{2}$

18) $\left(2n + \dfrac{1}{2}\right)\left(\dfrac{1}{2}n + \dfrac{5}{4}\right)$

$n^2 + \dfrac{11}{4}n + \dfrac{5}{8}$