

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find each product.**

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

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

3)  $\left(\frac{6}{5} + \frac{8}{7}x\right)^2$

4)  $\left(\frac{2}{3}n + \frac{7}{5}\right)^2$

5)  $\left(\frac{4}{3}n + \frac{19}{5}\right)^2$

6)  $\left(\frac{7}{6}r - \frac{1}{2}\right)^2$

7)  $\left(4 + \frac{13}{4}r\right)\left(-4 + \frac{13}{4}r\right)$

8)  $\left(2k - \frac{7}{4}\right)^2$

9)  $\left(2 + \frac{19}{6}m\right)\left(-2 + \frac{19}{6}m\right)$

10)  $\left(\frac{11}{6}n + \frac{1}{8}\right)^2$

11)  $\left(\frac{10}{3}b + \frac{2}{3}\right)^2$

12)  $\left(\frac{4}{3}k + \frac{14}{3}\right)^2$

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

14)  $\left(\frac{5}{3} - \frac{1}{3}v\right)^2$

15)  $\left(\frac{1}{6} + \frac{3}{4}v\right)\left(\frac{1}{6} - \frac{3}{4}v\right)$

16)  $\left(1 + \frac{1}{3}v\right)^2$

17)  $\left(\frac{1}{2}x + \frac{5}{3}\right)^2$

18)  $\left(-6 + \frac{20}{7}b\right)^2$

19)  $\left(x + \frac{14}{5}\right)\left(x - \frac{14}{5}\right)$

20)  $\left(\frac{2}{3}r - \frac{17}{8}\right)\left(\frac{2}{3}r + \frac{17}{8}\right)$

21)  $\left(\frac{3}{5} - \frac{13}{7}k\right)^2$

22)  $\left(\frac{19}{4}n - \frac{5}{3}\right)^2$

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Find each product.

1)  $\left(\frac{7}{5}k + \frac{3}{8}\right)\left(\frac{7}{5}k - \frac{3}{8}\right) = \frac{49}{25}k^2 - \frac{9}{64}$

2)  $\left(\frac{7}{2}x + \frac{17}{4}\right)\left(\frac{7}{2}x - \frac{17}{4}\right) = \frac{49}{4}x^2 - \frac{289}{16}$

3)  $\left(\frac{6}{5} + \frac{8}{7}x\right)^2 = \frac{36}{25} + \frac{96}{35}x + \frac{64}{49}x^2$

4)  $\left(\frac{2}{3}n + \frac{7}{5}\right)^2 = \frac{4}{9}n^2 + \frac{28}{15}n + \frac{49}{25}$

5)  $\left(\frac{4}{3}n + \frac{19}{5}\right)^2 = \frac{16}{9}n^2 + \frac{152}{15}n + \frac{361}{25}$

6)  $\left(\frac{7}{6}r - \frac{1}{2}\right)^2 = \frac{49}{36}r^2 - \frac{7}{6}r + \frac{1}{4}$

7)  $\left(4 + \frac{13}{4}r\right)\left(-4 + \frac{13}{4}r\right) = -16 + \frac{169}{16}r^2$

8)  $\left(2k - \frac{7}{4}\right)^2 = 4k^2 - 7k + \frac{49}{16}$

9)  $\left(2 + \frac{19}{6}m\right)\left(-2 + \frac{19}{6}m\right) = -4 + \frac{361}{36}m^2$

10)  $\left(\frac{11}{6}n + \frac{1}{8}\right)^2 = \frac{121}{36}n^2 + \frac{11}{24}n + \frac{1}{64}$

11)  $\left(\frac{10}{3}b + \frac{2}{3}\right)^2 = \frac{100}{9}b^2 + \frac{40}{9}b + \frac{4}{9}$

12)  $\left(\frac{4}{3}k + \frac{14}{3}\right)^2 = \frac{16}{9}k^2 + \frac{112}{9}k + \frac{196}{9}$

13)  $\left(\frac{7}{3}x - \frac{5}{4}\right)\left(\frac{7}{3}x + \frac{5}{4}\right) = \frac{49}{9}x^2 - \frac{25}{16}$

14)  $\left(\frac{5}{3} - \frac{1}{3}v\right)^2 = \frac{25}{9} - \frac{10}{9}v + \frac{1}{9}v^2$

15)  $\left(\frac{1}{6} + \frac{3}{4}v\right)\left(\frac{1}{6} - \frac{3}{4}v\right) = \frac{1}{36} - \frac{9}{16}v^2$

16)  $\left(1 + \frac{1}{3}v\right)^2 = 1 + \frac{2}{3}v + \frac{1}{9}v^2$

17)  $\left(\frac{1}{2}x + \frac{5}{3}\right)^2 = \frac{1}{4}x^2 + \frac{5}{3}x + \frac{25}{9}$

18)  $\left(-6 + \frac{20}{7}b\right)^2 = 36 - \frac{240}{7}b + \frac{400}{49}b^2$

19)  $\left(x + \frac{14}{5}\right)\left(x - \frac{14}{5}\right) = x^2 - \frac{196}{25}$

20)  $\left(\frac{2}{3}r - \frac{17}{8}\right)\left(\frac{2}{3}r + \frac{17}{8}\right) = \frac{4}{9}r^2 - \frac{289}{64}$

21)  $\left(\frac{3}{5} - \frac{13}{7}k\right)^2 = \frac{9}{25} - \frac{78}{35}k + \frac{169}{49}k^2$

22)  $\left(\frac{19}{4}n - \frac{5}{3}\right)^2 = \frac{361}{16}n^2 - \frac{95}{6}n + \frac{25}{9}$

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**Find each product.**

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

2)  $\left(\frac{1}{2}n - \frac{69}{8}\right)^2$

3)  $\left(\frac{1}{7}n + \frac{16}{5}\right)^2$

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

5)  $\left(\frac{7}{4}m - \frac{13}{7}\right)\left(\frac{7}{4}m + \frac{13}{7}\right)$

6)  $\left(\frac{11}{5}r + \frac{1}{5}\right)\left(\frac{11}{5}r - \frac{1}{5}\right)$

7)  $\left(8 + \frac{1}{5}v\right)\left(-8 + \frac{1}{5}v\right)$

8)  $\left(\frac{2}{7}m + \frac{5}{4}\right)^2$

9)  $\left(\frac{1}{3}n - \frac{15}{7}\right)\left(\frac{1}{3}n + \frac{15}{7}\right)$

10)  $\left(\frac{3}{5}x - \frac{16}{7}\right)^2$

11)  $\left(\frac{22}{5}r + \frac{2}{7}\right)^2$

12)  $\left(\frac{18}{5}n + \frac{3}{2}\right)\left(\frac{18}{5}n - \frac{3}{2}\right)$

13)  $\left(\frac{13}{8}x + \frac{19}{4}\right)^2$

14)  $\left(\frac{23}{6}a + \frac{2}{3}\right)\left(\frac{23}{6}a - \frac{2}{3}\right)$

15)  $\left(k + \frac{5}{7}\right)\left(k - \frac{5}{7}\right)$

16)  $\left(\frac{11}{7}x - \frac{29}{8}\right)^2$

17)  $\left(\frac{4}{7}a + \frac{3}{7}\right)\left(\frac{4}{7}a - \frac{3}{7}\right)$

18)  $\left(6r - \frac{1}{2}\right)^2$

19)  $\left(\frac{3}{5} + \frac{3}{2}x\right)\left(\frac{3}{5} - \frac{3}{2}x\right)$

20)  $\left(\frac{6}{7}x - \frac{1}{6}\right)\left(\frac{6}{7}x + \frac{1}{6}\right)$

21)  $\left(\frac{5}{3} + \frac{17}{6}b\right)^2$

22)  $\left(2n + \frac{1}{8}\right)\left(2n - \frac{1}{8}\right)$

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Find each product.

1)  $\left(\frac{5}{4} + \frac{2}{3}p\right)\left(\frac{5}{4} - \frac{2}{3}p\right) = \frac{25}{16} - \frac{4}{9}p^2$

2)  $\left(\frac{1}{2}n - \frac{69}{8}\right)^2 = \frac{1}{4}n^2 - \frac{69}{8}n + \frac{4761}{64}$

3)  $\left(\frac{1}{7}n + \frac{16}{5}\right)^2 = \frac{1}{49}n^2 + \frac{32}{35}n + \frac{256}{25}$

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

5)  $\left(\frac{7}{4}m - \frac{13}{7}\right)\left(\frac{7}{4}m + \frac{13}{7}\right) = \frac{49}{16}m^2 - \frac{169}{49}$

6)  $\left(\frac{11}{5}r + \frac{1}{5}\right)\left(\frac{11}{5}r - \frac{1}{5}\right) = \frac{121}{25}r^2 - \frac{1}{25}$

7)  $\left(8 + \frac{1}{5}v\right)\left(-8 + \frac{1}{5}v\right) = -64 + \frac{1}{25}v^2$

8)  $\left(\frac{2}{7}m + \frac{5}{4}\right)^2 = \frac{4}{49}m^2 + \frac{5}{7}m + \frac{25}{16}$

9)  $\left(\frac{1}{3}n - \frac{15}{7}\right)\left(\frac{1}{3}n + \frac{15}{7}\right) = \frac{1}{9}n^2 - \frac{225}{49}$

10)  $\left(\frac{3}{5}x - \frac{16}{7}\right)^2 = \frac{9}{25}x^2 - \frac{96}{35}x + \frac{256}{49}$

11)  $\left(\frac{22}{5}r + \frac{2}{7}\right)^2 = \frac{484}{25}r^2 + \frac{88}{35}r + \frac{4}{49}$

12)  $\left(\frac{18}{5}n + \frac{3}{2}\right)\left(\frac{18}{5}n - \frac{3}{2}\right) = \frac{324}{25}n^2 - \frac{9}{4}$

13)  $\left(\frac{13}{8}x + \frac{19}{4}\right)^2 = \frac{169}{64}x^2 + \frac{247}{16}x + \frac{361}{16}$

14)  $\left(\frac{23}{6}a + \frac{2}{3}\right)\left(\frac{23}{6}a - \frac{2}{3}\right) = \frac{529}{36}a^2 - \frac{4}{9}$

15)  $\left(k + \frac{5}{7}\right)\left(k - \frac{5}{7}\right) = k^2 - \frac{25}{49}$

16)  $\left(\frac{11}{7}x - \frac{29}{8}\right)^2 = \frac{121}{49}x^2 - \frac{319}{28}x + \frac{841}{64}$

17)  $\left(\frac{4}{7}a + \frac{3}{7}\right)\left(\frac{4}{7}a - \frac{3}{7}\right) = \frac{16}{49}a^2 - \frac{9}{49}$

18)  $\left(6r - \frac{1}{2}\right)^2 = 36r^2 - 6r + \frac{1}{4}$

19)  $\left(\frac{3}{5} + \frac{3}{2}x\right)\left(\frac{3}{5} - \frac{3}{2}x\right) = \frac{9}{25} - \frac{9}{4}x^2$

20)  $\left(\frac{6}{7}x - \frac{1}{6}\right)\left(\frac{6}{7}x + \frac{1}{6}\right) = \frac{36}{49}x^2 - \frac{1}{36}$

21)  $\left(\frac{5}{3} + \frac{17}{6}b\right)^2 = \frac{25}{9} + \frac{85}{9}b + \frac{289}{36}b^2$

22)  $\left(2n + \frac{1}{8}\right)\left(2n - \frac{1}{8}\right) = 4n^2 - \frac{1}{64}$

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**Find each product.**

1)  $\left(\frac{9}{7}x + \frac{9}{8}\right)^2$

2)  $\left(\frac{15}{8} + \frac{1}{6}x\right)^2$

3)  $\left(\frac{5}{4}p - \frac{13}{6}\right)^2$

4)  $\left(\frac{5}{4}n + \frac{13}{4}\right)^2$

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

6)  $\left(1 + \frac{1}{6}b\right)^2$

7)  $\left(\frac{13}{7}n - \frac{4}{3}\right)\left(\frac{13}{7}n + \frac{4}{3}\right)$

8)  $\left(\frac{11}{6}k + \frac{7}{4}\right)^2$

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

10)  $\left(-1 + \frac{1}{3}r\right)^2$

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

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

13)  $\left(\frac{7}{2}x - \frac{3}{2}\right)\left(\frac{7}{2}x + \frac{3}{2}\right)$

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

15)  $\left(a - \frac{11}{7}\right)^2$

16)  $\left(\frac{1}{2}p - \frac{1}{6}\right)\left(\frac{1}{2}p + \frac{1}{6}\right)$

17)  $\left(2x - \frac{7}{2}\right)^2$

18)  $\left(3x + \frac{3}{7}\right)\left(3x - \frac{3}{7}\right)$

19)  $\left(\frac{3}{4}x + \frac{23}{8}\right)\left(\frac{3}{4}x - \frac{23}{8}\right)$

20)  $\left(-1 + \frac{1}{2}m\right)\left(1 + \frac{1}{2}m\right)$

21)  $\left(\frac{13}{3}n - \frac{31}{8}\right)\left(\frac{13}{3}n + \frac{31}{8}\right)$

22)  $\left(-6 + \frac{2}{3}x\right)^2$

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Find each product.

1)  $\left(\frac{9}{7}x + \frac{9}{8}\right)^2 = \frac{81}{49}x^2 + \frac{81}{28}x + \frac{81}{64}$

2)  $\left(\frac{15}{8} + \frac{1}{6}x\right)^2 = \frac{225}{64} + \frac{5}{8}x + \frac{1}{36}x^2$

3)  $\left(\frac{5}{4}p - \frac{13}{6}\right)^2 = \frac{25}{16}p^2 - \frac{65}{12}p + \frac{169}{36}$

4)  $\left(\frac{5}{4}n + \frac{13}{4}\right)^2 = \frac{25}{16}n^2 + \frac{65}{8}n + \frac{169}{16}$

5)  $\left(2x + \frac{3}{4}\right)^2 = 4x^2 + 3x + \frac{9}{16}$

6)  $\left(1 + \frac{1}{6}b\right)^2 = 1 + \frac{1}{3}b + \frac{1}{36}b^2$

7)  $\left(\frac{13}{7}n - \frac{4}{3}\right)\left(\frac{13}{7}n + \frac{4}{3}\right) = \frac{169}{49}n^2 - \frac{16}{9}$

8)  $\left(\frac{11}{6}k + \frac{7}{4}\right)^2 = \frac{121}{36}k^2 + \frac{77}{12}k + \frac{49}{16}$

9)  $\left(\frac{4}{5}n + \frac{1}{6}\right)\left(\frac{4}{5}n - \frac{1}{6}\right) = \frac{16}{25}n^2 - \frac{1}{36}$

10)  $\left(-1 + \frac{1}{3}r\right)^2 = 1 - \frac{2}{3}r + \frac{1}{9}r^2$

11)  $\left(\frac{3}{2}p - \frac{9}{4}\right)\left(\frac{3}{2}p + \frac{9}{4}\right) = \frac{9}{4}p^2 - \frac{81}{16}$

12)  $\left(\frac{1}{3} - \frac{7}{2}p\right)\left(\frac{1}{3} + \frac{7}{2}p\right) = \frac{1}{9} - \frac{49}{4}p^2$

13)  $\left(\frac{7}{2}x - \frac{3}{2}\right)\left(\frac{7}{2}x + \frac{3}{2}\right) = \frac{49}{4}x^2 - \frac{9}{4}$

14)  $\left(-2 + \frac{1}{2}n\right)\left(2 + \frac{1}{2}n\right) = -4 + \frac{1}{4}n^2$

15)  $\left(a - \frac{11}{7}\right)^2 = a^2 - \frac{22}{7}a + \frac{121}{49}$

16)  $\left(\frac{1}{2}p - \frac{1}{6}\right)\left(\frac{1}{2}p + \frac{1}{6}\right) = \frac{1}{4}p^2 - \frac{1}{36}$

17)  $\left(2x - \frac{7}{2}\right)^2 = 4x^2 - 14x + \frac{49}{4}$

18)  $\left(3x + \frac{3}{7}\right)\left(3x - \frac{3}{7}\right) = 9x^2 - \frac{9}{49}$

19)  $\left(\frac{3}{4}x + \frac{23}{8}\right)\left(\frac{3}{4}x - \frac{23}{8}\right) = \frac{9}{16}x^2 - \frac{529}{64}$

20)  $\left(-1 + \frac{1}{2}m\right)\left(1 + \frac{1}{2}m\right) = -1 + \frac{1}{4}m^2$

21)  $\left(\frac{13}{3}n - \frac{31}{8}\right)\left(\frac{13}{3}n + \frac{31}{8}\right) = \frac{169}{9}n^2 - \frac{961}{64}$

22)  $\left(-6 + \frac{2}{3}x\right)^2 = 36 - 8x + \frac{4}{9}x^2$

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**Find each product.**

1)  $\left(\frac{16}{5}x - \frac{17}{5}\right)\left(\frac{16}{5}x + \frac{17}{5}\right)$

2)  $\left(2 + \frac{3}{5}r\right)\left(2 - \frac{3}{5}r\right)$

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

4)  $\left(\frac{7}{4}a + \frac{4}{3}\right)\left(\frac{7}{4}a - \frac{4}{3}\right)$

5)  $\left(\frac{1}{3}b + \frac{5}{2}\right)^2$

6)  $\left(\frac{5}{6}n + \frac{7}{5}\right)^2$

7)  $\left(\frac{33}{7} - \frac{18}{5}x\right)^2$

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

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

10)  $\left(\frac{8}{3}x + \frac{1}{2}\right)\left(\frac{8}{3}x - \frac{1}{2}\right)$

11)  $\left(\frac{7}{2} + \frac{13}{8}p\right)^2$

12)  $\left(2x - \frac{9}{7}\right)^2$

13)  $\left(\frac{3}{2}k + \frac{1}{4}\right)^2$

14)  $\left(\frac{1}{2} + \frac{15}{8}v\right)^2$

15)  $\left(\frac{23}{8}x + \frac{1}{6}\right)^2$

16)  $\left(\frac{3}{4}b + \frac{9}{8}\right)^2$

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

18)  $\left(\frac{4}{3}n + \frac{1}{2}\right)\left(\frac{4}{3}n - \frac{1}{2}\right)$

19)  $\left(\frac{1}{7}x + \frac{5}{8}\right)\left(\frac{1}{7}x - \frac{5}{8}\right)$

20)  $\left(-2 + \frac{1}{3}a\right)^2$

21)  $\left(-1 + \frac{5}{8}n\right)^2$

22)  $\left(2m - \frac{7}{4}\right)^2$

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Find each product.

1)  $\left(\frac{16}{5}x - \frac{17}{5}\right)\left(\frac{16}{5}x + \frac{17}{5}\right) = \frac{256}{25}x^2 - \frac{289}{25}$

2)  $\left(2 + \frac{3}{5}r\right)\left(2 - \frac{3}{5}r\right) = 4 - \frac{9}{25}r^2$

3)  $\left(v - \frac{7}{5}\right)\left(v + \frac{7}{5}\right) = v^2 - \frac{49}{25}$

4)  $\left(\frac{7}{4}a + \frac{4}{3}\right)\left(\frac{7}{4}a - \frac{4}{3}\right) = \frac{49}{16}a^2 - \frac{16}{9}$

5)  $\left(\frac{1}{3}b + \frac{5}{2}\right)^2 = \frac{1}{9}b^2 + \frac{5}{3}b + \frac{25}{4}$

6)  $\left(\frac{5}{6}n + \frac{7}{5}\right)^2 = \frac{25}{36}n^2 + \frac{7}{3}n + \frac{49}{25}$

7)  $\left(\frac{33}{7} - \frac{18}{5}x\right)^2 = \frac{1089}{49} - \frac{1188}{35}x + \frac{324}{25}x^2$

8)  $\left(\frac{4}{3}m - \frac{2}{5}\right)^2 = \frac{16}{9}m^2 - \frac{16}{15}m + \frac{4}{25}$

9)  $\left(1 + \frac{6}{5}x\right)\left(-1 + \frac{6}{5}x\right) = -1 + \frac{36}{25}x^2$

10)  $\left(\frac{8}{3}x + \frac{1}{2}\right)\left(\frac{8}{3}x - \frac{1}{2}\right) = \frac{64}{9}x^2 - \frac{1}{4}$

11)  $\left(\frac{7}{2} + \frac{13}{8}p\right)^2 = \frac{49}{4} + \frac{91}{8}p + \frac{169}{64}p^2$

12)  $\left(2x - \frac{9}{7}\right)^2 = 4x^2 - \frac{36}{7}x + \frac{81}{49}$

13)  $\left(\frac{3}{2}k + \frac{1}{4}\right)^2 = \frac{9}{4}k^2 + \frac{3}{4}k + \frac{1}{16}$

14)  $\left(\frac{1}{2} + \frac{15}{8}v\right)^2 = \frac{1}{4} + \frac{15}{8}v + \frac{225}{64}v^2$

15)  $\left(\frac{23}{8}x + \frac{1}{6}\right)^2 = \frac{529}{64}x^2 + \frac{23}{24}x + \frac{1}{36}$

16)  $\left(\frac{3}{4}b + \frac{9}{8}\right)^2 = \frac{9}{16}b^2 + \frac{27}{16}b + \frac{81}{64}$

17)  $\left(5v + \frac{7}{4}\right)\left(5v - \frac{7}{4}\right) = 25v^2 - \frac{49}{16}$

18)  $\left(\frac{4}{3}n + \frac{1}{2}\right)\left(\frac{4}{3}n - \frac{1}{2}\right) = \frac{16}{9}n^2 - \frac{1}{4}$

19)  $\left(\frac{1}{7}x + \frac{5}{8}\right)\left(\frac{1}{7}x - \frac{5}{8}\right) = \frac{1}{49}x^2 - \frac{25}{64}$

20)  $\left(-2 + \frac{1}{3}a\right)^2 = 4 - \frac{4}{3}a + \frac{1}{9}a^2$

21)  $\left(-1 + \frac{5}{8}n\right)^2 = 1 - \frac{5}{4}n + \frac{25}{64}n^2$

22)  $\left(2m - \frac{7}{4}\right)^2 = 4m^2 - 7m + \frac{49}{16}$



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**Find each product.**

1)  $\left(\frac{5}{6} + \frac{1}{4}x\right)^2$

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

3)  $\left(\frac{1}{2}b - \frac{13}{5}\right)^2$

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

5)  $\left(\frac{1}{3}k - \frac{2}{3}\right)^2$

6)  $\left(\frac{17}{6}x - \frac{8}{5}\right)\left(\frac{17}{6}x + \frac{8}{5}\right)$

7)  $\left(-5 + \frac{1}{2}v\right)\left(5 + \frac{1}{2}v\right)$

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

9)  $\left(\frac{25}{6}r - \frac{12}{7}\right)\left(\frac{25}{6}r + \frac{12}{7}\right)$

10)  $\left(\frac{12}{5}a + \frac{5}{3}\right)^2$

11)  $\left(\frac{5}{3}v + \frac{3}{5}\right)\left(\frac{5}{3}v - \frac{3}{5}\right)$

12)  $\left(\frac{4}{3}n + \frac{8}{5}\right)\left(\frac{4}{3}n - \frac{8}{5}\right)$

13)  $\left(\frac{1}{2} - \frac{11}{6}p\right)^2$

14)  $\left(\frac{4}{3}x + \frac{27}{8}\right)\left(\frac{4}{3}x - \frac{27}{8}\right)$

15)  $\left(6 + \frac{15}{8}r\right)\left(-6 + \frac{15}{8}r\right)$

16)  $\left(\frac{1}{2} + \frac{5}{3}x\right)\left(\frac{1}{2} - \frac{5}{3}x\right)$

17)  $\left(2 + \frac{1}{8}k\right)^2$

18)  $\left(\frac{13}{4}r + \frac{21}{8}\right)\left(\frac{13}{4}r - \frac{21}{8}\right)$

19)  $\left(\frac{25}{8}m - \frac{9}{5}\right)\left(\frac{25}{8}m + \frac{9}{5}\right)$

20)  $\left(\frac{8}{7}x + \frac{29}{7}\right)\left(\frac{8}{7}x - \frac{29}{7}\right)$

21)  $\left(\frac{10}{3}m + \frac{11}{3}\right)\left(\frac{10}{3}m - \frac{11}{3}\right)$

22)  $\left(\frac{11}{5}a + \frac{1}{2}\right)^2$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find each product.

1)  $\left(\frac{5}{6} + \frac{1}{4}x\right)^2 = \frac{25}{36} + \frac{5}{12}x + \frac{1}{16}x^2$

2)  $\left(\frac{5}{4}r + \frac{5}{3}\right)\left(\frac{5}{4}r - \frac{5}{3}\right) = \frac{25}{16}r^2 - \frac{25}{9}$

3)  $\left(\frac{1}{2}b - \frac{13}{5}\right)^2 = \frac{1}{4}b^2 - \frac{13}{5}b + \frac{169}{25}$

4)  $\left(2x - \frac{5}{2}\right)^2 = 4x^2 - 10x + \frac{25}{4}$

5)  $\left(\frac{1}{3}k - \frac{2}{3}\right)^2 = \frac{1}{9}k^2 - \frac{4}{9}k + \frac{4}{9}$

6)  $\left(\frac{17}{6}x - \frac{8}{5}\right)\left(\frac{17}{6}x + \frac{8}{5}\right) = \frac{289}{36}x^2 - \frac{64}{25}$

7)  $\left(-5 + \frac{1}{2}v\right)\left(5 + \frac{1}{2}v\right) = -25 + \frac{1}{4}v^2$

8)  $\left(\frac{3}{2}x + \frac{19}{4}\right)^2 = \frac{9}{4}x^2 + \frac{57}{4}x + \frac{361}{16}$

9)  $\left(\frac{25}{6}r - \frac{12}{7}\right)\left(\frac{25}{6}r + \frac{12}{7}\right) = \frac{625}{36}r^2 - \frac{144}{49}$

10)  $\left(\frac{12}{5}a + \frac{5}{3}\right)^2 = \frac{144}{25}a^2 + 8a + \frac{25}{9}$

11)  $\left(\frac{5}{3}v + \frac{3}{5}\right)\left(\frac{5}{3}v - \frac{3}{5}\right) = \frac{25}{9}v^2 - \frac{9}{25}$

12)  $\left(\frac{4}{3}n + \frac{8}{5}\right)\left(\frac{4}{3}n - \frac{8}{5}\right) = \frac{16}{9}n^2 - \frac{64}{25}$

13)  $\left(\frac{1}{2} - \frac{11}{6}p\right)^2 = \frac{1}{4} - \frac{11}{6}p + \frac{121}{36}p^2$

14)  $\left(\frac{4}{3}x + \frac{27}{8}\right)\left(\frac{4}{3}x - \frac{27}{8}\right) = \frac{16}{9}x^2 - \frac{729}{64}$

15)  $\left(6 + \frac{15}{8}r\right)\left(-6 + \frac{15}{8}r\right) = -36 + \frac{225}{64}r^2$

16)  $\left(\frac{1}{2} + \frac{5}{3}x\right)\left(\frac{1}{2} - \frac{5}{3}x\right) = \frac{1}{4} - \frac{25}{9}x^2$

17)  $\left(2 + \frac{1}{8}k\right)^2 = 4 + \frac{1}{2}k + \frac{1}{64}k^2$

18)  $\left(\frac{13}{4}r + \frac{21}{8}\right)\left(\frac{13}{4}r - \frac{21}{8}\right) = \frac{169}{16}r^2 - \frac{441}{64}$

19)  $\left(\frac{25}{8}m - \frac{9}{5}\right)\left(\frac{25}{8}m + \frac{9}{5}\right) = \frac{625}{64}m^2 - \frac{81}{25}$

20)  $\left(\frac{8}{7}x + \frac{29}{7}\right)\left(\frac{8}{7}x - \frac{29}{7}\right) = \frac{64}{49}x^2 - \frac{841}{49}$

21)  $\left(\frac{10}{3}m + \frac{11}{3}\right)\left(\frac{10}{3}m - \frac{11}{3}\right) = \frac{100}{9}m^2 - \frac{121}{9}$

22)  $\left(\frac{11}{5}a + \frac{1}{2}\right)^2 = \frac{121}{25}a^2 + \frac{11}{5}a + \frac{1}{4}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find each product.**

1)  $\left(\frac{33}{7}n - \frac{16}{5}\right)\left(\frac{33}{7}n + \frac{16}{5}\right)$

2)  $\left(\frac{3}{2}p + \frac{15}{2}\right)^2$

3)  $\left(\frac{19}{6} + \frac{3}{7}x\right)^2$

4)  $\left(\frac{13}{3}n - \frac{5}{4}\right)^2$

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

6)  $\left(2a + \frac{4}{3}\right)^2$

7)  $\left(\frac{9}{8} - \frac{1}{2}b\right)\left(\frac{9}{8} + \frac{1}{2}b\right)$

8)  $\left(\frac{3}{4}r + \frac{11}{7}\right)\left(\frac{3}{4}r - \frac{11}{7}\right)$

9)  $\left(\frac{7}{3}x - \frac{11}{3}\right)^2$

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

11)  $\left(\frac{11}{7}x - \frac{5}{7}\right)^2$

12)  $\left(1 + \frac{5}{3}n\right)^2$

13)  $\left(\frac{23}{8}x + \frac{4}{3}\right)^2$

14)  $\left(-6 + \frac{5}{4}x\right)^2$

15)  $\left(\frac{9}{4} + \frac{17}{6}n\right)^2$

16)  $\left(\frac{57}{8}x + \frac{32}{7}\right)\left(\frac{57}{8}x - \frac{32}{7}\right)$

17)  $\left(\frac{3}{4}k + \frac{7}{2}\right)^2$

18)  $\left(\frac{9}{5}b + \frac{7}{4}\right)^2$

19)  $\left(\frac{2}{7}r + \frac{23}{6}\right)^2$

20)  $\left(-6 + \frac{30}{7}k\right)^2$

21)  $\left(\frac{3}{2}n + \frac{1}{7}\right)^2$

22)  $\left(\frac{9}{2}k - \frac{19}{3}\right)\left(\frac{9}{2}k + \frac{19}{3}\right)$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find each product.

1)  $\left(\frac{33}{7}n - \frac{16}{5}\right)\left(\frac{33}{7}n + \frac{16}{5}\right) = \frac{1089}{49}n^2 - \frac{256}{25}$

2)  $\left(\frac{3}{2}p + \frac{15}{2}\right)^2 = \frac{9}{4}p^2 + \frac{45}{2}p + \frac{225}{4}$

3)  $\left(\frac{19}{6} + \frac{3}{7}x\right)^2 = \frac{361}{36} + \frac{19}{7}x + \frac{9}{49}x^2$

4)  $\left(\frac{13}{3}n - \frac{5}{4}\right)^2 = \frac{169}{9}n^2 - \frac{65}{6}n + \frac{25}{16}$

5)  $\left(\frac{7}{2}n - \frac{2}{3}\right)\left(\frac{7}{2}n + \frac{2}{3}\right) = \frac{49}{4}n^2 - \frac{4}{9}$

6)  $\left(2a + \frac{4}{3}\right)^2 = 4a^2 + \frac{16}{3}a + \frac{16}{9}$

7)  $\left(\frac{9}{8} - \frac{1}{2}b\right)\left(\frac{9}{8} + \frac{1}{2}b\right) = \frac{81}{64} - \frac{1}{4}b^2$

8)  $\left(\frac{3}{4}r + \frac{11}{7}\right)\left(\frac{3}{4}r - \frac{11}{7}\right) = \frac{9}{16}r^2 - \frac{121}{49}$

9)  $\left(\frac{7}{3}x - \frac{11}{3}\right)^2 = \frac{49}{9}x^2 - \frac{154}{9}x + \frac{121}{9}$

10)  $\left(\frac{5}{6}x - \frac{7}{2}\right)\left(\frac{5}{6}x + \frac{7}{2}\right) = \frac{25}{36}x^2 - \frac{49}{4}$

11)  $\left(\frac{11}{7}x - \frac{5}{7}\right)^2 = \frac{121}{49}x^2 - \frac{110}{49}x + \frac{25}{49}$

12)  $\left(1 + \frac{5}{3}n\right)^2 = 1 + \frac{10}{3}n + \frac{25}{9}n^2$

13)  $\left(\frac{23}{8}x + \frac{4}{3}\right)^2 = \frac{529}{64}x^2 + \frac{23}{3}x + \frac{16}{9}$

14)  $\left(-6 + \frac{5}{4}x\right)^2 = 36 - 15x + \frac{25}{16}x^2$

15)  $\left(\frac{9}{4} + \frac{17}{6}n\right)^2 = \frac{81}{16} + \frac{51}{4}n + \frac{289}{36}n^2$

16)  $\left(\frac{57}{8}x + \frac{32}{7}\right)\left(\frac{57}{8}x - \frac{32}{7}\right) = \frac{3249}{64}x^2 - \frac{1024}{49}$

17)  $\left(\frac{3}{4}k + \frac{7}{2}\right)^2 = \frac{9}{16}k^2 + \frac{21}{4}k + \frac{49}{4}$

18)  $\left(\frac{9}{5}b + \frac{7}{4}\right)^2 = \frac{81}{25}b^2 + \frac{63}{10}b + \frac{49}{16}$

19)  $\left(\frac{2}{7}r + \frac{23}{6}\right)^2 = \frac{4}{49}r^2 + \frac{46}{21}r + \frac{529}{36}$

20)  $\left(-6 + \frac{30}{7}k\right)^2 = 36 - \frac{360}{7}k + \frac{900}{49}k^2$

21)  $\left(\frac{3}{2}n + \frac{1}{7}\right)^2 = \frac{9}{4}n^2 + \frac{3}{7}n + \frac{1}{49}$

22)  $\left(\frac{9}{2}k - \frac{19}{3}\right)\left(\frac{9}{2}k + \frac{19}{3}\right) = \frac{81}{4}k^2 - \frac{361}{9}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find each product.**

1)  $\left(2r + \frac{6}{7}\right)\left(-2r + \frac{6}{7}\right)$

2)  $\left(\frac{14}{3}n + \frac{2}{5}\right)\left(\frac{14}{3}n - \frac{2}{5}\right)$

3)  $\left(\frac{3}{8} + \frac{24}{5}p\right)\left(\frac{3}{8} - \frac{24}{5}p\right)$

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

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

6)  $\left(\frac{19}{4}r - \frac{23}{8}\right)^2$

7)  $\left(\frac{1}{4}p + \frac{15}{8}\right)\left(\frac{1}{4}p - \frac{15}{8}\right)$

8)  $\left(\frac{3}{8}x + \frac{13}{4}\right)\left(\frac{3}{8}x - \frac{13}{4}\right)$

9)  $\left(8p + \frac{7}{2}\right)^2$

10)  $\left(1 + \frac{34}{7}x\right)\left(1 - \frac{34}{7}x\right)$

11)  $\left(\frac{3}{2}p - \frac{7}{2}\right)^2$

12)  $\left(\frac{13}{4}p + \frac{19}{6}\right)^2$

13)  $\left(-2 + \frac{7}{4}x\right)\left(2 + \frac{7}{4}x\right)$

14)  $\left(n - \frac{3}{4}\right)\left(n + \frac{3}{4}\right)$

15)  $\left(\frac{5}{2} - \frac{5}{3}b\right)\left(\frac{5}{2} + \frac{5}{3}b\right)$

16)  $\left(\frac{9}{5}x + \frac{3}{2}\right)^2$

17)  $\left(-2 + \frac{3}{2}x\right)\left(2 + \frac{3}{2}x\right)$

18)  $\left(\frac{4}{3}x - \frac{8}{5}\right)\left(\frac{4}{3}x + \frac{8}{5}\right)$

19)  $\left(-1 + \frac{10}{3}n\right)\left(1 + \frac{10}{3}n\right)$

20)  $\left(\frac{3}{5}v + \frac{25}{6}\right)\left(\frac{3}{5}v - \frac{25}{6}\right)$

21)  $\left(\frac{3}{2}b + \frac{5}{6}\right)^2$

22)  $\left(\frac{2}{3}a - \frac{14}{5}\right)^2$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find each product.

1)  $\left(2r + \frac{6}{7}\right)\left(-2r + \frac{6}{7}\right) -4r^2 + \frac{36}{49}$

2)  $\left(\frac{14}{3}n + \frac{2}{5}\right)\left(\frac{14}{3}n - \frac{2}{5}\right) \frac{196}{9}n^2 - \frac{4}{25}$

3)  $\left(\frac{3}{8} + \frac{24}{5}p\right)\left(\frac{3}{8} - \frac{24}{5}p\right) \frac{9}{64} - \frac{576}{25}p^2$

4)  $\left(-6 + \frac{5}{3}n\right)^2 36 - 20n + \frac{25}{9}n^2$

5)  $\left(\frac{3}{2}x - \frac{11}{6}\right)\left(\frac{3}{2}x + \frac{11}{6}\right) \frac{9}{4}x^2 - \frac{121}{36}$

6)  $\left(\frac{19}{4}r - \frac{23}{8}\right)^2 \frac{361}{16}r^2 - \frac{437}{16}r + \frac{529}{64}$

7)  $\left(\frac{1}{4}p + \frac{15}{8}\right)\left(\frac{1}{4}p - \frac{15}{8}\right) \frac{1}{16}p^2 - \frac{225}{64}$

8)  $\left(\frac{3}{8}x + \frac{13}{4}\right)\left(\frac{3}{8}x - \frac{13}{4}\right) \frac{9}{64}x^2 - \frac{169}{16}$

9)  $\left(8p + \frac{7}{2}\right)^2 64p^2 + 56p + \frac{49}{4}$

10)  $\left(1 + \frac{34}{7}x\right)\left(1 - \frac{34}{7}x\right) 1 - \frac{1156}{49}x^2$

11)  $\left(\frac{3}{2}p - \frac{7}{2}\right)^2 \frac{9}{4}p^2 - \frac{21}{2}p + \frac{49}{4}$

12)  $\left(\frac{13}{4}p + \frac{19}{6}\right)^2 \frac{169}{16}p^2 + \frac{247}{12}p + \frac{361}{36}$

13)  $\left(-2 + \frac{7}{4}x\right)\left(2 + \frac{7}{4}x\right) -4 + \frac{49}{16}x^2$

14)  $\left(n - \frac{3}{4}\right)\left(n + \frac{3}{4}\right) n^2 - \frac{9}{16}$

15)  $\left(\frac{5}{2} - \frac{5}{3}b\right)\left(\frac{5}{2} + \frac{5}{3}b\right) \frac{25}{4} - \frac{25}{9}b^2$

16)  $\left(\frac{9}{5}x + \frac{3}{2}\right)^2 \frac{81}{25}x^2 + \frac{27}{5}x + \frac{9}{4}$

17)  $\left(-2 + \frac{3}{2}x\right)\left(2 + \frac{3}{2}x\right) -4 + \frac{9}{4}x^2$

18)  $\left(\frac{4}{3}x - \frac{8}{5}\right)\left(\frac{4}{3}x + \frac{8}{5}\right) \frac{16}{9}x^2 - \frac{64}{25}$

19)  $\left(-1 + \frac{10}{3}n\right)\left(1 + \frac{10}{3}n\right) -1 + \frac{100}{9}n^2$

20)  $\left(\frac{3}{5}v + \frac{25}{6}\right)\left(\frac{3}{5}v - \frac{25}{6}\right) \frac{9}{25}v^2 - \frac{625}{36}$

21)  $\left(\frac{3}{2}b + \frac{5}{6}\right)^2 \frac{9}{4}b^2 + \frac{5}{2}b + \frac{25}{36}$

22)  $\left(\frac{2}{3}a - \frac{14}{5}\right)^2 \frac{4}{9}a^2 - \frac{56}{15}a + \frac{196}{25}$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find each product.**

1)  $\left(\frac{19}{6}b + \frac{19}{7}\right)^2$

2)  $\left(1 - \frac{13}{6}x\right)\left(1 + \frac{13}{6}x\right)$

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

4)  $\left(\frac{5}{4}m - \frac{8}{5}\right)\left(\frac{5}{4}m + \frac{8}{5}\right)$

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

6)  $\left(\frac{21}{8} - \frac{4}{7}p\right)\left(\frac{21}{8} + \frac{4}{7}p\right)$

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

8)  $\left(\frac{23}{7} + \frac{19}{5}n\right)^2$

9)  $\left(\frac{1}{2} + \frac{7}{3}x\right)\left(\frac{1}{2} - \frac{7}{3}x\right)$

10)  $\left(1 + \frac{3}{2}r\right)^2$

11)  $\left(7x + \frac{1}{6}\right)\left(7x - \frac{1}{6}\right)$

12)  $\left(\frac{4}{3}b + \frac{30}{7}\right)^2$

13)  $\left(n - \frac{16}{7}\right)\left(n + \frac{16}{7}\right)$

14)  $\left(\frac{5}{8}n - \frac{31}{8}\right)\left(\frac{5}{8}n + \frac{31}{8}\right)$

15)  $\left(\frac{19}{8}x - \frac{19}{8}\right)^2$

16)  $\left(x + \frac{5}{3}\right)\left(x - \frac{5}{3}\right)$

17)  $\left(\frac{14}{5}m + \frac{11}{6}\right)\left(\frac{14}{5}m - \frac{11}{6}\right)$

18)  $\left(\frac{4}{5}p + \frac{19}{8}\right)\left(\frac{4}{5}p - \frac{19}{8}\right)$

19)  $\left(2x + \frac{1}{2}\right)^2$

20)  $\left(\frac{39}{8}r + \frac{3}{7}\right)\left(\frac{39}{8}r - \frac{3}{7}\right)$

21)  $\left(5 + \frac{3}{5}b\right)\left(-5 + \frac{3}{5}b\right)$

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

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find each product.

1)  $\left(\frac{19}{6}b + \frac{19}{7}\right)^2 = \frac{361}{36}b^2 + \frac{361}{21}b + \frac{361}{49}$

2)  $\left(1 - \frac{13}{6}x\right)\left(1 + \frac{13}{6}x\right) = 1 - \frac{169}{36}x^2$

3)  $\left(\frac{1}{6} + \frac{3}{8}x\right)\left(\frac{1}{6} - \frac{3}{8}x\right) = \frac{1}{36} - \frac{9}{64}x^2$

4)  $\left(\frac{5}{4}m - \frac{8}{5}\right)\left(\frac{5}{4}m + \frac{8}{5}\right) = \frac{25}{16}m^2 - \frac{64}{25}$

5)  $\left(\frac{4}{3}m + \frac{9}{2}\right)\left(\frac{4}{3}m - \frac{9}{2}\right) = \frac{16}{9}m^2 - \frac{81}{4}$

6)  $\left(\frac{21}{8} - \frac{4}{7}p\right)\left(\frac{21}{8} + \frac{4}{7}p\right) = \frac{441}{64} - \frac{16}{49}p^2$

7)  $\left(\frac{16}{7}r + \frac{4}{5}\right)\left(\frac{16}{7}r - \frac{4}{5}\right) = \frac{256}{49}r^2 - \frac{16}{25}$

8)  $\left(\frac{23}{7} + \frac{19}{5}n\right)^2 = \frac{529}{49} + \frac{874}{35}n + \frac{361}{25}n^2$

9)  $\left(\frac{1}{2} + \frac{7}{3}x\right)\left(\frac{1}{2} - \frac{7}{3}x\right) = \frac{1}{4} - \frac{49}{9}x^2$

10)  $\left(1 + \frac{3}{2}r\right)^2 = 1 + 3r + \frac{9}{4}r^2$

11)  $\left(7x + \frac{1}{6}\right)\left(7x - \frac{1}{6}\right) = 49x^2 - \frac{1}{36}$

12)  $\left(\frac{4}{3}b + \frac{30}{7}\right)^2 = \frac{16}{9}b^2 + \frac{80}{7}b + \frac{900}{49}$

13)  $\left(n - \frac{16}{7}\right)\left(n + \frac{16}{7}\right) = n^2 - \frac{256}{49}$

14)  $\left(\frac{5}{8}n - \frac{31}{8}\right)\left(\frac{5}{8}n + \frac{31}{8}\right) = \frac{25}{64}n^2 - \frac{961}{64}$

15)  $\left(\frac{19}{8}x - \frac{19}{8}\right)^2 = \frac{361}{64}x^2 - \frac{361}{32}x + \frac{361}{64}$

16)  $\left(x + \frac{5}{3}\right)\left(x - \frac{5}{3}\right) = x^2 - \frac{25}{9}$

17)  $\left(\frac{14}{5}m + \frac{11}{6}\right)\left(\frac{14}{5}m - \frac{11}{6}\right) = \frac{196}{25}m^2 - \frac{121}{36}$

18)  $\left(\frac{4}{5}p + \frac{19}{8}\right)\left(\frac{4}{5}p - \frac{19}{8}\right) = \frac{16}{25}p^2 - \frac{361}{64}$

19)  $\left(2x + \frac{1}{2}\right)^2 = 4x^2 + 2x + \frac{1}{4}$

20)  $\left(\frac{39}{8}r + \frac{3}{7}\right)\left(\frac{39}{8}r - \frac{3}{7}\right) = \frac{1521}{64}r^2 - \frac{9}{49}$

21)  $\left(5 + \frac{3}{5}b\right)\left(-5 + \frac{3}{5}b\right) = -25 + \frac{9}{25}b^2$

22)  $\left(1 + \frac{7}{3}v\right)\left(-1 + \frac{7}{3}v\right) = -1 + \frac{49}{9}v^2$



## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

**Find each product.**

1)  $\left(\frac{3}{2}n + \frac{18}{5}\right)^2$

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

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

4)  $\left(3x - \frac{4}{7}\right)\left(3x + \frac{4}{7}\right)$

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

6)  $\left(\frac{13}{8}n + \frac{7}{5}\right)\left(\frac{13}{8}n - \frac{7}{5}\right)$

7)  $\left(\frac{1}{6} - \frac{24}{7}v\right)^2$

8)  $\left(\frac{1}{2} + \frac{5}{2}n\right)^2$

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

10)  $\left(\frac{11}{8}k - \frac{3}{2}\right)^2$

11)  $\left(\frac{1}{2} + \frac{1}{3}n\right)\left(\frac{1}{2} - \frac{1}{3}n\right)$

12)  $\left(\frac{9}{4}b + \frac{1}{6}\right)\left(\frac{9}{4}b - \frac{1}{6}\right)$

13)  $\left(\frac{5}{2}k + \frac{6}{7}\right)^2$

14)  $\left(\frac{8}{3}x + \frac{1}{2}\right)^2$

15)  $\left(5v + \frac{3}{4}\right)^2$

16)  $\left(4x + \frac{17}{6}\right)\left(-4x + \frac{17}{6}\right)$

17)  $\left(v + \frac{8}{7}\right)^2$

18)  $\left(\frac{8}{7}b + \frac{34}{7}\right)\left(\frac{8}{7}b - \frac{34}{7}\right)$

19)  $\left(\frac{21}{5}k + \frac{11}{7}\right)\left(\frac{21}{5}k - \frac{11}{7}\right)$

20)  $\left(\frac{7}{8}v + \frac{1}{4}\right)\left(\frac{7}{8}v - \frac{1}{4}\right)$

21)  $\left(\frac{11}{7}x + \frac{9}{8}\right)\left(\frac{11}{7}x - \frac{9}{8}\right)$

22)  $\left(\frac{3}{4} + \frac{2}{3}n\right)^2$

## Assignment

Date \_\_\_\_\_ Period \_\_\_\_\_

Find each product.

1)  $\left(\frac{3}{2}n + \frac{18}{5}\right)^2 = \frac{9}{4}n^2 + \frac{54}{5}n + \frac{324}{25}$

2)  $\left(\frac{3}{5}p - \frac{3}{2}\right)\left(\frac{3}{5}p + \frac{3}{2}\right) = \frac{9}{25}p^2 - \frac{9}{4}$

3)  $\left(\frac{1}{4} + \frac{3}{2}k\right)^2 = \frac{1}{16} + \frac{3}{4}k + \frac{9}{4}k^2$

4)  $\left(3x - \frac{4}{7}\right)\left(3x + \frac{4}{7}\right) = 9x^2 - \frac{16}{49}$

5)  $\left(\frac{11}{7}x - \frac{3}{2}\right)\left(\frac{11}{7}x + \frac{3}{2}\right) = \frac{121}{49}x^2 - \frac{9}{4}$

6)  $\left(\frac{13}{8}n + \frac{7}{5}\right)\left(\frac{13}{8}n - \frac{7}{5}\right) = \frac{169}{64}n^2 - \frac{49}{25}$

7)  $\left(\frac{1}{6} - \frac{24}{7}v\right)^2 = \frac{1}{36} - \frac{8}{7}v + \frac{576}{49}v^2$

8)  $\left(\frac{1}{2} + \frac{5}{2}n\right)^2 = \frac{1}{4} + \frac{5}{2}n + \frac{25}{4}n^2$

9)  $\left(b - \frac{1}{2}\right)\left(b + \frac{1}{2}\right) = b^2 - \frac{1}{4}$

10)  $\left(\frac{11}{8}k - \frac{3}{2}\right)^2 = \frac{121}{64}k^2 - \frac{33}{8}k + \frac{9}{4}$

11)  $\left(\frac{1}{2} + \frac{1}{3}n\right)\left(\frac{1}{2} - \frac{1}{3}n\right) = \frac{1}{4} - \frac{1}{9}n^2$

12)  $\left(\frac{9}{4}b + \frac{1}{6}\right)\left(\frac{9}{4}b - \frac{1}{6}\right) = \frac{81}{16}b^2 - \frac{1}{36}$

13)  $\left(\frac{5}{2}k + \frac{6}{7}\right)^2 = \frac{25}{4}k^2 + \frac{30}{7}k + \frac{36}{49}$

14)  $\left(\frac{8}{3}x + \frac{1}{2}\right)^2 = \frac{64}{9}x^2 + \frac{8}{3}x + \frac{1}{4}$

15)  $\left(5v + \frac{3}{4}\right)^2 = 25v^2 + \frac{15}{2}v + \frac{9}{16}$

16)  $\left(4x + \frac{17}{6}\right)\left(-4x + \frac{17}{6}\right) = -16x^2 + \frac{289}{36}$

17)  $\left(v + \frac{8}{7}\right)^2 = v^2 + \frac{16}{7}v + \frac{64}{49}$

18)  $\left(\frac{8}{7}b + \frac{34}{7}\right)\left(\frac{8}{7}b - \frac{34}{7}\right) = \frac{64}{49}b^2 - \frac{1156}{49}$

19)  $\left(\frac{21}{5}k + \frac{11}{7}\right)\left(\frac{21}{5}k - \frac{11}{7}\right) = \frac{441}{25}k^2 - \frac{121}{49}$

20)  $\left(\frac{7}{8}v + \frac{1}{4}\right)\left(\frac{7}{8}v - \frac{1}{4}\right) = \frac{49}{64}v^2 - \frac{1}{16}$

21)  $\left(\frac{11}{7}x + \frac{9}{8}\right)\left(\frac{11}{7}x - \frac{9}{8}\right) = \frac{121}{49}x^2 - \frac{81}{64}$

22)  $\left(\frac{3}{4} + \frac{2}{3}n\right)^2 = \frac{9}{16} + n + \frac{4}{9}n^2$

## Assignment

**Find each product.**

1)  $\left(\frac{17}{6}b + \frac{8}{5}\right)\left(\frac{17}{6}b - \frac{8}{5}\right)$

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

3)  $\left(\frac{6}{7} + \frac{5}{3}b\right)^2$

4)  $\left(x + \frac{37}{8}\right)\left(-x + \frac{37}{8}\right)$

5)  $\left(m + \frac{17}{7}\right)^2$

6)  $\left(\frac{2}{3}x + \frac{1}{3}\right)^2$

7)  $\left(\frac{3}{5}p + \frac{18}{5}\right)^2$

8)  $\left(\frac{2}{5}m - \frac{9}{8}\right)^2$

9)  $\left(2 + \frac{2}{3}m\right)^2$

10)  $\left(\frac{23}{6}x + \frac{3}{2}\right)\left(\frac{23}{6}x - \frac{3}{2}\right)$

11)  $\left(\frac{11}{2}x + \frac{1}{2}\right)\left(\frac{11}{2}x - \frac{1}{2}\right)$

12)  $\left(\frac{5}{2}n + \frac{11}{7}\right)\left(\frac{5}{2}n - \frac{11}{7}\right)$

13)  $\left(x + \frac{17}{4}\right)^2$

14)  $\left(-4 + \frac{19}{5}r\right)^2$

15)  $\left(\frac{3}{7}k + \frac{1}{2}\right)^2$

16)  $\left(\frac{13}{8}p - \frac{11}{5}\right)^2$

17)  $\left(\frac{9}{5}x - \frac{15}{4}\right)\left(\frac{9}{5}x + \frac{15}{4}\right)$

18)  $\left(\frac{15}{8}x - \frac{1}{2}\right)\left(\frac{15}{8}x + \frac{1}{2}\right)$

19)  $\left(\frac{3}{4}x - \frac{7}{6}\right)^2$

20)  $\left(\frac{9}{5}r - \frac{3}{2}\right)\left(\frac{9}{5}r + \frac{3}{2}\right)$

21)  $\left(\frac{32}{7}p + \frac{7}{3}\right)\left(\frac{32}{7}p - \frac{7}{3}\right)$

22)  $\left(\frac{3}{5} + \frac{1}{4}n\right)^2$

## Assignment

Find each product.

1)  $\left(\frac{17}{6}b + \frac{8}{5}\right)\left(\frac{17}{6}b - \frac{8}{5}\right) = \frac{289}{36}b^2 - \frac{64}{25}$

2)  $\left(\frac{1}{2}n - \frac{7}{3}\right)^2 = \frac{1}{4}n^2 - \frac{7}{3}n + \frac{49}{9}$

3)  $\left(\frac{6}{7} + \frac{5}{3}b\right)^2 = \frac{36}{49} + \frac{20}{7}b + \frac{25}{9}b^2$

4)  $\left(x + \frac{37}{8}\right)\left(-x + \frac{37}{8}\right) = -x^2 + \frac{1369}{64}$

5)  $\left(m + \frac{17}{7}\right)^2 = m^2 + \frac{34}{7}m + \frac{289}{49}$

6)  $\left(\frac{2}{3}x + \frac{1}{3}\right)^2 = \frac{4}{9}x^2 + \frac{4}{9}x + \frac{1}{9}$

7)  $\left(\frac{3}{5}p + \frac{18}{5}\right)^2 = \frac{9}{25}p^2 + \frac{108}{25}p + \frac{324}{25}$

8)  $\left(\frac{2}{5}m - \frac{9}{8}\right)^2 = \frac{4}{25}m^2 - \frac{9}{10}m + \frac{81}{64}$

9)  $\left(2 + \frac{2}{3}m\right)^2 = 4 + \frac{8}{3}m + \frac{4}{9}m^2$

10)  $\left(\frac{23}{6}x + \frac{3}{2}\right)\left(\frac{23}{6}x - \frac{3}{2}\right) = \frac{529}{36}x^2 - \frac{9}{4}$

11)  $\left(\frac{11}{2}x + \frac{1}{2}\right)\left(\frac{11}{2}x - \frac{1}{2}\right) = \frac{121}{4}x^2 - \frac{1}{4}$

12)  $\left(\frac{5}{2}n + \frac{11}{7}\right)\left(\frac{5}{2}n - \frac{11}{7}\right) = \frac{25}{4}n^2 - \frac{121}{49}$

13)  $\left(x + \frac{17}{4}\right)^2 = x^2 + \frac{17}{2}x + \frac{289}{16}$

14)  $\left(-4 + \frac{19}{5}r\right)^2 = 16 - \frac{152}{5}r + \frac{361}{25}r^2$

15)  $\left(\frac{3}{7}k + \frac{1}{2}\right)^2 = \frac{9}{49}k^2 + \frac{3}{7}k + \frac{1}{4}$

16)  $\left(\frac{13}{8}p - \frac{11}{5}\right)^2 = \frac{169}{64}p^2 - \frac{143}{20}p + \frac{121}{25}$

17)  $\left(\frac{9}{5}x - \frac{15}{4}\right)\left(\frac{9}{5}x + \frac{15}{4}\right) = \frac{81}{25}x^2 - \frac{225}{16}$

18)  $\left(\frac{15}{8}x - \frac{1}{2}\right)\left(\frac{15}{8}x + \frac{1}{2}\right) = \frac{225}{64}x^2 - \frac{1}{4}$

19)  $\left(\frac{3}{4}x - \frac{7}{6}\right)^2 = \frac{9}{16}x^2 - \frac{7}{4}x + \frac{49}{36}$

20)  $\left(\frac{9}{5}r - \frac{3}{2}\right)\left(\frac{9}{5}r + \frac{3}{2}\right) = \frac{81}{25}r^2 - \frac{9}{4}$

21)  $\left(\frac{32}{7}p + \frac{7}{3}\right)\left(\frac{32}{7}p - \frac{7}{3}\right) = \frac{1024}{49}p^2 - \frac{49}{9}$

22)  $\left(\frac{3}{5} + \frac{1}{4}n\right)^2 = \frac{9}{25} + \frac{3}{10}n + \frac{1}{16}n^2$