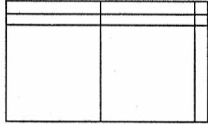
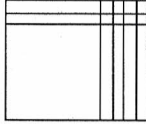
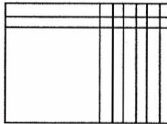
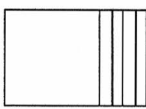


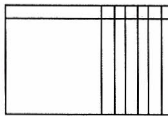
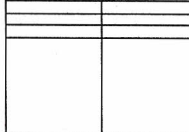
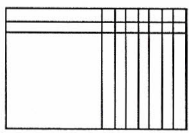
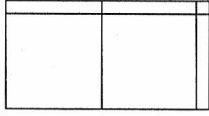
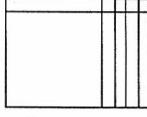
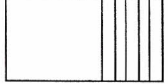
24F

- 1) $3.14 \times (6)^2 \times 15 = 1,695.6$ cu. in.
- 2) $3.14 \times (7)^2 \times 25 = 3,846.5$ cu. ft.
- 3)
$$\begin{array}{r} 6X^2 + 5X + 10 \\ + 5X^2 + 9X + 2 \\ \hline 11X^2 + 14X + 12 \end{array}$$
- 4)
$$\begin{array}{r} 7X^2 + 7X + 5 \\ + -5X^2 - 4X - 3 \\ \hline 2X^2 + 3X + 2 \end{array}$$
- 5)
$$\begin{array}{r} 4X^2 + 8X + 9 \\ + -3X^2 + 2X - 6 \\ \hline X^2 + 10X + 3 \end{array}$$
- 6) $4 = 2 \times 2$; $9 = 3 \times 3$
LCM = $2 \times 2 \times 3 \times 3 = 36$
- 7) $6 = 2 \times 3$; $21 = 3 \times 7$
GCF = 3
- 8) $\frac{300}{100} = 3$
- 9) $\frac{250}{100} = 2\frac{50}{100} = 2\frac{1}{2}$
- 10) $\frac{175}{100} = 1\frac{75}{100} = 1\frac{3}{4}$
- 11) line
- 12) line segment
- 13) point
- 14) plane
- 15) $\frac{9}{10} = \frac{90}{100} = .90 = 90\%$
- 16) $\frac{19}{20} = \frac{95}{100} = 95\%$
- 17) no: normal body temperature in Celsius is 37°
- 18) yes; 0° C is the freezing point of water
- 19) $2(8 \times 16) + 2(8 \times 22) = 256 + 352 = 608$ sq. ft.
- 20) 2 gal. ($2 \times 400 = 800$ sq. ft.)

25A

- 1) done
- 2) done
- 3) 
 $2X^2 + 5X + 2$
- 4) 
 $X^2 + 6X + 8$
- 5) 
 $X^2 + 8X + 12$
- 6) 
 $X^2 + 4X$
- 7) done
- 8)
$$\begin{array}{r} X + 7 \\ \times X + 1 \\ \hline X^2 + 7X \\ X + 7 \\ \hline X^2 + 8X + 7 \end{array}$$
- 9)
$$\begin{array}{r} X + 6 \\ \times X + 3 \\ \hline 3X + 18 \\ X^2 + 6X \\ \hline X^2 + 9X + 18 \end{array}$$
- 10) done
- 11) done
- 12) $(X + 7)(X + 3) = X^2 + 10X + 21$
 $(10)^2 + 10(10) + 21 = 100 + 100 + 21 = 221$

25B

- 1) 
 $X^2 + 7X + 6$
- 2) 
 $2X^2 + 6X$
- 3) 
 $X^2 + 9X + 14$
- 4) 
 $2X^2 + 4X + 2$
- 5) 
 $X^2 + 5X + 4$
- 6) 
 $X^2 + 6X$
- 7)
$$\begin{array}{r} X + 8 \\ \times X + 2 \\ \hline 2X + 16 \\ X^2 + 8X \\ \hline X^2 + 10X + 16 \end{array}$$

- 8)
$$\begin{array}{r} X + 9 \\ \times X + 6 \\ \hline 6X + 54 \\ X^2 + 9X \\ \hline X^2 + 15X + 54 \end{array}$$
- 9)
$$\begin{array}{r} 2X + 9 \\ \times X + 2 \\ \hline 4X + 18 \\ 2X^2 + 9X \\ \hline 2X^2 + 13X + 18 \end{array}$$
- 10)
$$\begin{array}{r} X + 7 \\ \times X + 6 \\ \hline 6X + 42 \\ X^2 + 7X \\ \hline X^2 + 13X + 42 \end{array}$$
- 11)
$$\begin{array}{r} X + 5 \\ \times X + 4 \\ \hline 4X + 20 \\ X^2 + 5X \\ \hline X^2 + 9X + 20 \end{array}$$
- 12)
$$\begin{array}{r} 2X + 3 \\ \times X + 1 \\ \hline 2X + 3 \\ 2X^2 + 3X \\ \hline 2X^2 + 5X + 3 \end{array}$$
- 13) $(X + 3)(X + 4) = X^2 + 7X + 12$
- 14) $(4)^2 + 7(4) + 12 = 16 + 28 + 12 = 56$
 $(8)^2 + 7(8) + 12 = 64 + 56 + 12 = 132$
- 15) $R(R + 5) = R^2 + 5R$

25C

1)

$$\begin{array}{r} x^2 + x \\ \times \quad x + 2 \\ \hline \end{array}$$

2)

$$\begin{array}{r} x^2 + 6x + 5 \\ \times \quad x + 1 \\ \hline \end{array}$$

3)

$$\begin{array}{r} x^2 + 9x + 20 \\ \times \quad x + 1 \\ \hline \end{array}$$

4)

$$\begin{array}{r} 2x^2 + 11x + 5 \\ \times \quad x + 2 \\ \hline \end{array}$$

5)

$$\begin{array}{r} x^2 + 10x + 16 \\ \times \quad x + 1 \\ \hline \end{array}$$

6)

$$\begin{array}{r} x^2 + 2x + 1 \\ \times \quad x + 1 \\ \hline \end{array}$$

7)
$$\begin{array}{r} 2x + 1 \\ \times \quad x + 4 \\ \hline 8x + 4 \\ 2x^2 + x \\ \hline 2x^2 + 9x + 4 \end{array}$$

8)
$$\begin{array}{r} x + 8 \\ \times \quad x + 3 \\ \hline 3x + 24 \\ x^2 + 8x \\ \hline x^2 + 11x + 24 \end{array}$$

9)
$$\begin{array}{r} x + 9 \\ \times \quad x + 7 \\ \hline 7x + 63 \\ x^2 + 9x \\ \hline x^2 + 16x + 63 \end{array}$$

10)
$$\begin{array}{r} 2x + 5 \\ \times \quad x + 3 \\ \hline 6x + 15 \\ 2x^2 + 5x \\ \hline 2x^2 + 11x + 15 \end{array}$$

11)
$$\begin{array}{r} x + 6 \\ \times \quad x + 4 \\ \hline 4x + 24 \\ x^2 + 6x \\ \hline x^2 + 10x + 24 \end{array}$$

12)
$$\begin{array}{r} x + 11 \\ \times \quad x + 3 \\ \hline 3x + 33 \\ x^2 + 11x \\ \hline x^2 + 14x + 33 \end{array}$$

13)
$$(x + 8)(x + 5) = x^2 + 13x + 40$$

14)
$$\begin{aligned} (3)^2 + 13(3) + 40 &= 9 + 39 + 40 = 88 \\ (6)^2 + 13(6) + 40 &= 36 + 78 + 40 = 154 \end{aligned}$$

15)
$$(F + 10)(F + 5) = F^2 + 15F + 50$$

25D

1)

$$\begin{array}{r} x^2 + 8x + 7 \\ \times \quad x + 1 \\ \hline \end{array}$$

2)

$$\begin{array}{r} x^2 + 10x + 16 \\ \times \quad x + 1 \\ \hline \end{array}$$

3)

$$\begin{array}{r} x^2 + 9x + 18 \\ \times \quad x + 1 \\ \hline \end{array}$$

4)
$$\begin{array}{r} x + 5 \\ \times \quad x + 3 \\ \hline 3x + 15 \\ x^2 + 5x \\ \hline x^2 + 8x + 15 \end{array}$$

5)
$$\begin{array}{r} 2x + 5 \\ \times \quad x + 4 \\ \hline 8x + 20 \\ 2x^2 + 5x \\ \hline 2x^2 + 13x + 20 \end{array}$$

6)
$$\begin{array}{r} x + 9 \\ \times \quad x + 2 \\ \hline 2x + 18 \\ x^2 + 9x \\ \hline x^2 + 11x + 18 \end{array}$$

7)
$$3.14 \times (4)^2 \times 13.7 = 688.288 \text{ cu. in.}$$

8)
$$3.14 \times (5.5)^2 \times 14 = 1,329.79 \text{ cu. ft.}$$

9)
$$\begin{array}{r} 4x^2 + 8x + 9 \\ -3x^2 + 2x - 6 \\ \hline x^2 + 10x + 3 \end{array}$$

10)
$$\begin{array}{r} 5x^2 + 5x + 4 \\ +7x^2 - 1x - 2 \\ \hline 12x^2 + 4x + 2 \end{array}$$

11)
$$\begin{array}{r} 8x^2 + 3x - 2 \\ -4x^2 + 7x + 11 \\ \hline 4x^2 + 10x + 9 \end{array}$$

12) 22.1

13) 4

14) 6.1

15) line segment

16)
$$3.50 \times 150 = 525 \text{ lbs}$$

$$525 - 150 = 375 \text{ lbs}$$

17)
$$25 = 5 \times 5; 45 = 3 \times 3 \times 5$$

$$\text{GCF} = 5$$

18)
$$3 - \frac{19}{8} = \frac{24}{8} - \frac{19}{8} = \frac{5}{8}$$

25E

1)

$$\begin{array}{r} x^2 + 6x + 5 \\ \times \quad x + 1 \\ \hline \end{array}$$

2)

$$\begin{array}{r} x^2 + 3x + 2 \\ \times \quad x + 1 \\ \hline \end{array}$$

3)

$$\begin{array}{r} x^2 + 7x + 12 \\ \times \quad x + 1 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 2x + 2 \\ \times \quad x + 5 \\ \hline 10x + 10 \\ 2x^2 + 2x \\ \hline 2x^2 + 12x + 10 \end{array}$$

5)
$$\begin{array}{r} x + 7 \\ \times \quad x + 1 \\ \hline x + 7 \\ x^2 + 7x \\ \hline x^2 + 8x + 7 \end{array}$$

6)
$$\begin{array}{r} 2x + 8 \\ \times \quad x + 2 \\ \hline 4x + 16 \\ 2x^2 + 8x \\ \hline 2x^2 + 12x + 16 \end{array}$$

7)
$$3.14 \times (5)^2 \times 10.6 = 832.1 \text{ cu. in.}$$

8)
$$3.14 \times (6.5)^2 \times 17.3 = 2,295.1 \text{ cu. ft. rounded}$$

9)
$$\begin{array}{r} 9x^2 + 5x + 4 \\ -8x^2 + 3x - 7 \\ \hline x^2 + 8x - 3 \end{array}$$

10)
$$\begin{array}{r} 9x^2 - 2x + 9 \\ -2x^2 - 6x - 4 \\ \hline 7x^2 - 8x + 5 \end{array}$$

11)
$$\begin{array}{r} x^2 - x + 6 \\ + 5x^2 - 8x - 3 \\ \hline 6x^2 - 9x + 3 \end{array}$$

12)
$$7 \times 3 + 7 \times 4 = 21 + 28 = 49$$

13)
$$8x + 5 \times 8 = 8x + 40$$

14)
$$Y \times Y + 9Y = Y^2 + 9Y$$

15)
$$\frac{S}{14} = \frac{12}{21}$$

$$21S = 12 \times 14$$

$$21S = 168$$

$$S = 8$$

16)
$$\frac{2}{4} = \frac{10}{D}$$

$$2D = 4 \times 10$$

$$2D = 40$$

$$D = 20$$

17) angle

18)
$$9 = 3 \times 3; 5 = 1 \times 5$$

$$\text{LCM} = 3 \times 3 \times 5 = 45$$

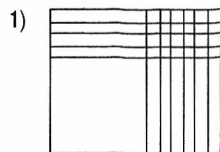
19)
$$\frac{1}{4} \text{ of } \$32 = \$8$$

$$\$32 - \$8 = \$24$$

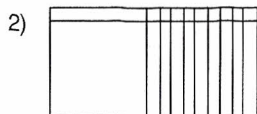
$$\$24 \times 1.04 = \$24.96$$

20)
$$\$25 - \$24.96 = \$.04$$

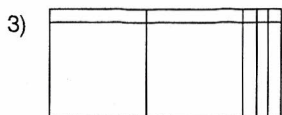
25F



$$X^2 + 10X + 24$$



$$X^2 + 10X + 9$$



$$2X^2 + 5X + 3$$

4)
$$\begin{array}{r} 3X + 4 \\ \times \quad X + 3 \\ \hline 9X + 12 \\ 3X^2 + 4X \\ \hline 3X^2 + 13X + 12 \end{array}$$

5)
$$\begin{array}{r} X + 3 \\ \times \quad X + 2 \\ \hline 2X + 6 \\ X^2 + 3X \\ \hline X^2 + 5X + 6 \end{array}$$

6)
$$\begin{array}{r} 2X + 5 \\ \times \quad X + 1 \\ \hline 2X + 5 \\ 2X^2 + 5X \\ \hline 2X^2 + 7X + 5 \end{array}$$

7) $3.14 \times (3)^2 \times 8 = 226.08 \text{ cu. in.}$

8) $3.14 \times (5)^2 \times 5.3 = 416.05 \text{ cu. ft.}$

9)
$$\begin{array}{r} 6X^2 + 5X + 2 \\ + 7X^2 + 3X - 1 \\ \hline 13X^2 + 8X + 1 \end{array}$$

10)
$$\begin{array}{r} 4X^2 - X - 9 \\ + 8X^2 - 8X - 2 \\ \hline 12X^2 - 9X - 11 \end{array}$$

11)
$$\begin{array}{r} -3X^2 + 6X - 5 \\ + 8X^2 - 4X + 7 \\ \hline 5X^2 + 2X + 2 \end{array}$$

12) $5^2 + 2 \cdot 3 - 8 + |-5| = 25 + 6 - 8 + 5 = 28$

13) $|16 + 4 + (3)(4) - 19| = |4 + 12 - 19| = |-3| = 3$

14) $(2^2 - 6) + 11 - 9 = (4 - 6) + 11 - 9 = -2 + 11 - 9 = 0$

15) $\frac{W}{21} = \frac{15}{25}$
 $25W = 21 \times 15$
 $25W = 315$
 $W = 12.6$

16) $\frac{X}{1} = \frac{4.5}{1.5}$; $1.5X = 4.5$; $X = 3$

17) $24 = 2 \times 2 \times 2 \times 3$
 $32 = 2 \times 2 \times 2 \times 2 \times 2$
 $\text{GCF} = 2 \times 2 \times 2 = 8$

18) $.40 \times \$12 = \4.80 discount
 $\$12 - \$4.80 = \$7.20$

19) $\$12 - \$7.20 = \$4.80$

20) $\$2.98 \times 1.77 = \5.27 rounded

26A

1) done

2) done

3)
$$\begin{array}{r} 15:30 \\ + 1:30 \\ \hline 7:00 \end{array}$$

4)
$$\begin{array}{r} 1:15 \\ + 2:40 \\ \hline 3:55 \end{array}$$

5)
$$\begin{array}{r} 1:55 \\ + 1:15 \\ \hline 2:10 \end{array}$$

6)
$$\begin{array}{r} 4:43 \\ + 3:22 \\ \hline 8:05 \end{array}$$

7) done

8)
$$\begin{array}{r} 3:75 \\ - 3:40 \\ \hline :35 \end{array}$$

9)
$$\begin{array}{r} 6:15 \\ - 2:58 \\ \hline 4:37 \end{array}$$

10) done

11) $11:24 + 12 = 11:36$

$$\begin{array}{r} 11:24 + 12 = 11:36 \\ - 5:48 + 12 = 6:00 \\ \hline 5:36 \end{array}$$

12)
$$\begin{array}{r} 4:15 + 14 = 4:29 \\ - 2:46 + 14 = 3:00 \\ \hline 1:29 \end{array}$$

13) $8:35 + 1:25 = 10:00$

14) $11:20 + 1:50 = 13:10$

15) $4:30 - 2:45 = 1:45$

26B

1)
$$\begin{array}{r} 5:18 \\ + 6:36 \\ \hline 11:54 \end{array}$$

2)
$$\begin{array}{r} 7:36 \\ + 3:40 \\ \hline 11:16 \end{array}$$

3)
$$\begin{array}{r} 9:50 \\ + 6:30 \\ \hline 16:20 \end{array}$$

4)
$$\begin{array}{r} 3:38 \\ + 2:21 \\ \hline 5:59 \end{array}$$

5)
$$\begin{array}{r} 2:56 \\ + 1:18 \\ \hline 4:14 \end{array}$$

6)
$$\begin{array}{r} 3:45 \\ + 1:19 \\ \hline 5:04 \end{array}$$

7)
$$\begin{array}{r} 8:75 \\ - 6:30 \\ \hline 2:45 \end{array}$$

8)
$$\begin{array}{r} 7:85 \\ - 6:45 \\ \hline 1:40 \end{array}$$

9)
$$\begin{array}{r} 2:81 \\ - 1:50 \\ \hline 1:31 \end{array}$$

10) $8:19 + 37 = 8:56$

$$\begin{array}{r} 8:19 + 37 = 8:56 \\ - 4:23 + 37 = 5:00 \\ \hline 3:56 \end{array}$$

11) $5:27 + 31 = 5:58$

$$\begin{array}{r} 5:27 + 31 = 5:58 \\ - 2:29 + 31 = 3:00 \\ \hline 2:58 \end{array}$$

12) $5:37 + 5 = 5:42$

$$\begin{array}{r} 5:37 + 5 = 5:42 \\ - 1:55 + 5 = 2:00 \\ \hline 3:42 \end{array}$$

13) $6:20 + 5:15 = 11:35$

14) $2:20 + 1:40 = 4:00$

15) $6:15 - 4:13 = 2:02$

26C

1)
$$\begin{array}{r} 6:17 \\ + 5:55 \\ \hline 12:12 \end{array}$$

2)
$$\begin{array}{r} 3:18 \\ + 1:53 \\ \hline 5:11 \end{array}$$

3)
$$\begin{array}{r} 3:14 \\ + 5:17 \\ \hline 8:31 \end{array}$$

4)
$$\begin{array}{r} 8:30 \\ + 6:40 \\ \hline 15:10 \end{array}$$

5)
$$\begin{array}{r} 2:43 \\ + 3:16 \\ \hline 5:59 \end{array}$$

6)
$$\begin{array}{r} 8:25 \\ + 1:46 \\ \hline 10:11 \end{array}$$

7)
$$\begin{array}{r} 8:90 \\ - 2:40 \\ \hline 6:50 \end{array}$$

8)
$$\begin{array}{r} 3:75 \\ - 2:46 \\ \hline 1:29 \end{array}$$

9)
$$\begin{array}{r} 11:78 \\ - 3:55 \\ \hline 8:23 \end{array}$$

10) $8:36 + 13 = 8:49$

$$\begin{array}{r} 8:36 + 13 = 8:49 \\ - 2:47 + 13 = 3:00 \\ \hline 5:49 \end{array}$$

11) $5:30 + 5 = 5:35$

$$\begin{array}{r} 5:30 + 5 = 5:35 \\ - 1:55 + 5 = 2:00 \\ \hline 3:35 \end{array}$$

12) $4:25 + 17 = 4:42$

$$\begin{array}{r} 4:25 + 17 = 4:42 \\ - 1:43 + 17 = 2:00 \\ \hline 2:42 \end{array}$$

13) $7:45 + 2:55 = 10:40$

14) $5:10 + 6:42 = 11:52$

15) $5:25 - 4:30 = :55$