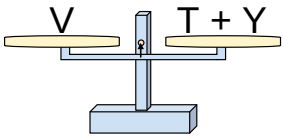
Balancing Equations Name:

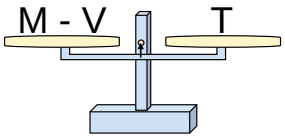
The scales shown are balanced. Determine which number sentence must be true.

1)



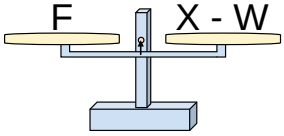
A. T = Y - V
B. T = V - Y
C. T = Y + V
D. T = V + Y

2)



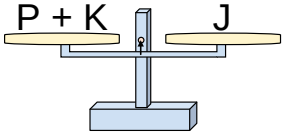
A. M = T + T
B. M = T - V
C. M = V + T
D. M = V - T

3)



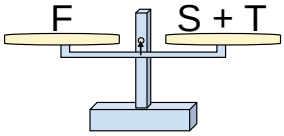
A. X = W - F
B. X = W + F
C. X = F - W
D. X = F + F

4)



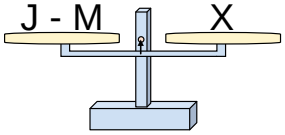
A. P = K - J
B. P = K + J
C. P = J + K
D. P = J - K

5)



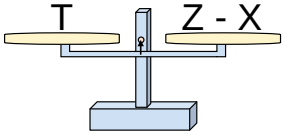
A. S = F - T
B. S = T - F
C. S = T + F
D. S = F + T

6)



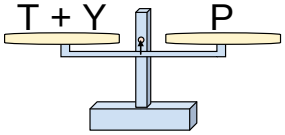
A. J = M + X
B. J = X + X
C. J = M - X
D. J = X - M

7)



A. Z = T + T
B. Z = T - X
C. Z = X + T
D. Z = X - T

8)



A. T = Y - P
B. T = Y + P
C. T = P + Y
D. T = P - Y

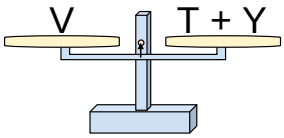
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

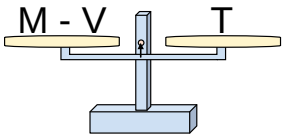
The scales shown are balanced. Determine which number sentence must be true.

1)



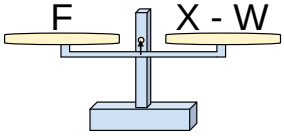
A. T = Y - V
B. T = V - Y
C. T = Y + V
D. T = V + Y

2)



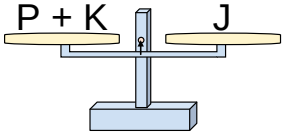
A. M = T + T
B. M = T - V
C. M = V + T
D. M = V - T

3)



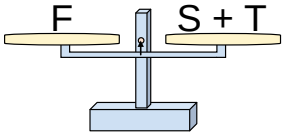
A. X = W - F
B. X = W + F
C. X = F - W
D. X = F + F

4)



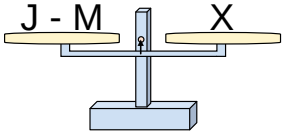
A. P = K - J
B. P = K + J
C. P = J + K
D. P = J - K

5)



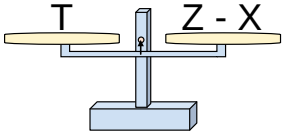
A. S = F - T
B. S = T - F
C. S = T + F
D. S = F + T

6)



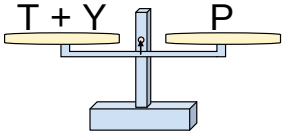
A. J = M + X
B. J = X + X
C. J = M - X
D. J = X - M

7)



A. Z = T + T
B. Z = T - X
C. Z = X + T
D. Z = X - T

8)



A. T = Y - P
B. T = Y + P
C. T = P + Y
D. T = P - Y

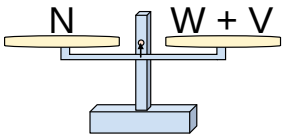
Answers

1. **B**
2. **C**
3. **B**
4. **D**
5. **A**
6. **A**
7. **C**
8. **D**

1-8	88	75	63	50	38	25	13	0

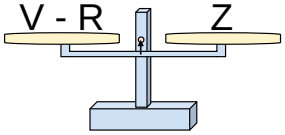
The scales shown are balanced. Determine which number sentence must be true.

1)



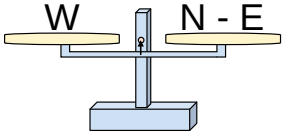
A. W = N - V
B. W = V - N
C. W = V + N
D. W = N + V

2)



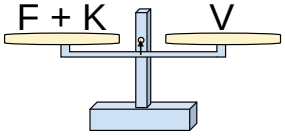
A. V = R - Z
B. V = Z + Z
C. V = Z - R
D. V = R + Z

3)



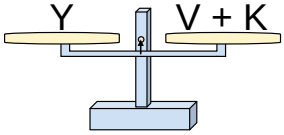
A. N = W + W
B. N = E + W
C. N = W - E
D. N = E - W

4)



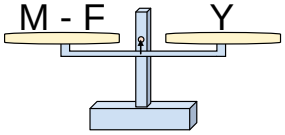
A. F = K + V
B. F = V + K
C. F = V - K
D. F = K - V

5)



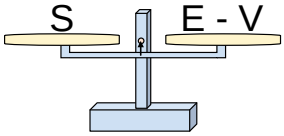
A. V = Y + K
B. V = K + Y
C. V = K - Y
D. V = Y - K

6)



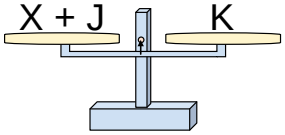
A. M = Y - F
B. M = F + Y
C. M = F - Y
D. M = Y + Y

7)



A. E = V + S
B. E = S - V
C. E = V - S
D. E = S + S

8)



A. X = J - K
B. X = J + K
C. X = K - J
D. X = K + J

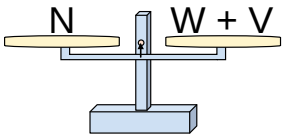
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

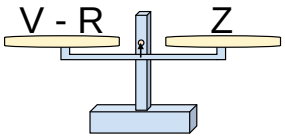
The scales shown are balanced. Determine which number sentence must be true.

1)



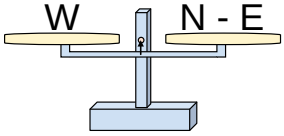
A. W = N - V
B. W = V - N
C. W = V + N
D. W = N + V

2)



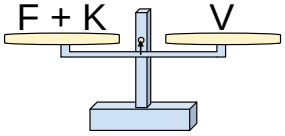
A. V = R - Z
B. V = Z + Z
C. V = Z - R
D. V = R + Z

3)



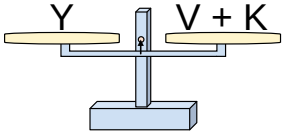
A. N = W + W
B. N = E + W
C. N = W - E
D. N = E - W

4)



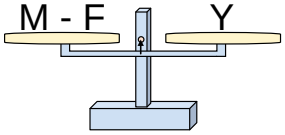
A. F = K + V
B. F = V + K
C. F = V - K
D. F = K - V

5)



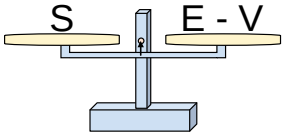
A. V = Y + K
B. V = K + Y
C. V = K - Y
D. V = Y - K

6)



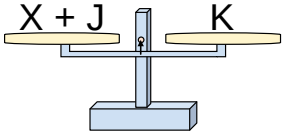
A. M = Y - F
B. M = F + Y
C. M = F - Y
D. M = Y + Y

7)



A. E = V + S
B. E = S - V
C. E = V - S
D. E = S + S

8)



A. X = J - K
B. X = J + K
C. X = K - J
D. X = K + J

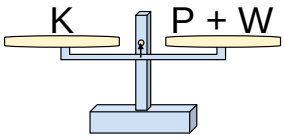
Answers

1. **A**
2. **D**
3. **B**
4. **C**
5. **D**
6. **B**
7. **A**
8. **C**

1-8	88	75	63	50	38	25	13	0

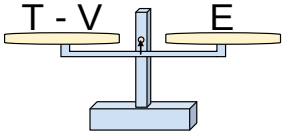
The scales shown are balanced. Determine which number sentence must be true.

1)



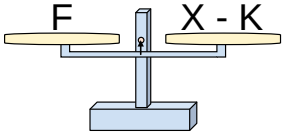
A. P = W + K
B. P = K - W
C. P = K + W
D. P = W - K

2)



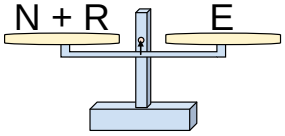
A. T = E + E
B. T = V - E
C. T = E - V
D. T = V + E

3)



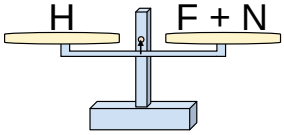
A. X = K + F
B. X = F + F
C. X = F - K
D. X = K - F

4)



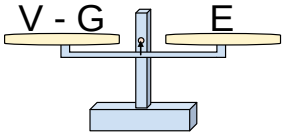
A. N = E - R
B. N = R + E
C. N = E + R
D. N = R - E

5)



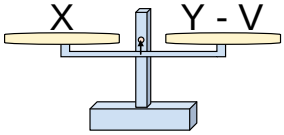
A. F = N + H
B. F = N - H
C. F = H + N
D. F = H - N

6)



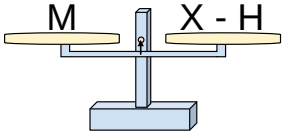
A. V = G - E
B. V = E + E
C. V = G + E
D. V = E - G

7)



A. Y = V - X
B. Y = X - V
C. Y = X + X
D. Y = V + X

8)



A. X = M - H
B. X = M + M
C. X = H - M
D. X = H + M

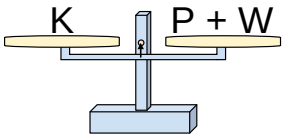
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

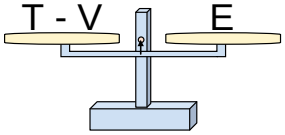
The scales shown are balanced. Determine which number sentence must be true.

1)



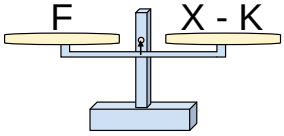
A. P = W + K
B. P = K - W
C. P = K + W
D. P = W - K

2)



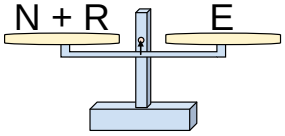
A. T = E + E
B. T = V - E
C. T = E - V
D. T = V + E

3)



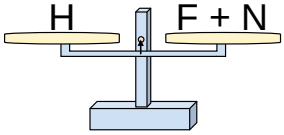
A. X = K + F
B. X = F + F
C. X = F - K
D. X = K - F

4)



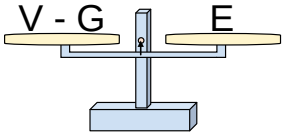
A. N = E - R
B. N = R + E
C. N = E + R
D. N = R - E

5)



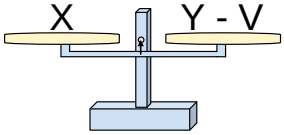
A. F = N + H
B. F = N - H
C. F = H + N
D. F = H - N

6)



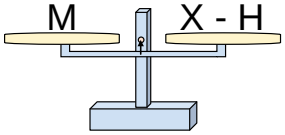
A. V = G - E
B. V = E + E
C. V = G + E
D. V = E - G

7)



A. Y = V - X
B. Y = X - V
C. Y = X + X
D. Y = V + X

8)



A. X = M - H
B. X = M + M
C. X = H - M
D. X = H + M

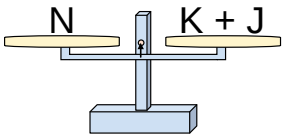
Answers

1. **B**
2. **D**
3. **A**
4. **A**
5. **D**
6. **C**
7. **D**
8. **D**

1-8	88	75	63	50	38	25	13	0

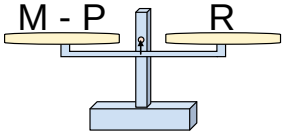
The scales shown are balanced. Determine which number sentence must be true.

1)



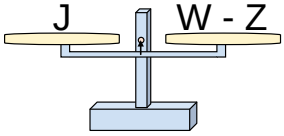
A. K = J - N
B. K = N - J
C. K = N + J
D. K = J + N

2)



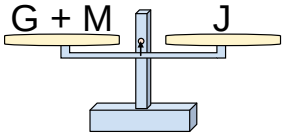
A. M = P + R
B. M = R - P
C. M = P - R
D. M = R + R

3)



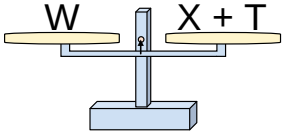
A. W = Z - J
B. W = J + J
C. W = Z + J
D. W = J - Z

4)



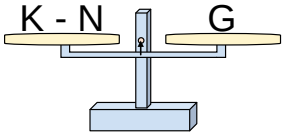
A. G = M + J
B. G = M - J
C. G = J - M
D. G = J + M

5)



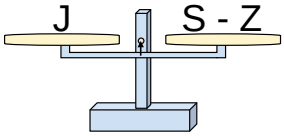
A. X = T - W
B. X = W + T
C. X = T + W
D. X = W - T

6)



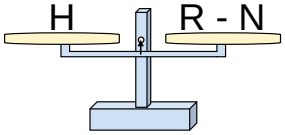
A. K = G - N
B. K = G + G
C. K = N + G
D. K = N - G

7)



A. S = Z - J
B. S = Z + J
C. S = J + J
D. S = J - Z

8)



A. R = N - H
B. R = H - N
C. R = H + H
D. R = N + H

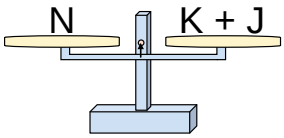
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

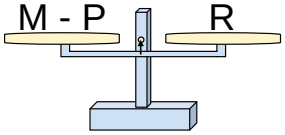
The scales shown are balanced. Determine which number sentence must be true.

1)



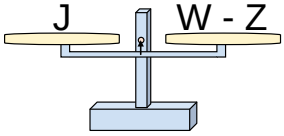
A. K = J - N
B. K = N - J
C. K = N + J
D. K = J + N

2)



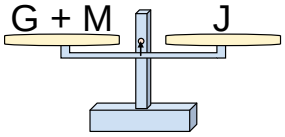
A. M = P + R
B. M = R - P
C. M = P - R
D. M = R + R

3)



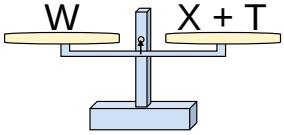
A. W = Z - J
B. W = J + J
C. W = Z + J
D. W = J - Z

4)



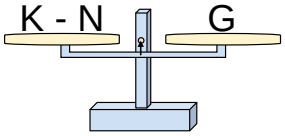
A. G = M + J
B. G = M - J
C. G = J - M
D. G = J + M

5)



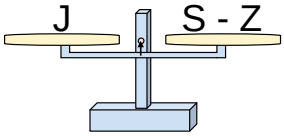
A. X = T - W
B. X = W + T
C. X = T + W
D. X = W - T

6)



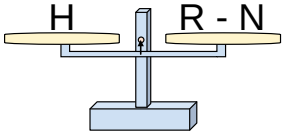
A. K = G - N
B. K = G + G
C. K = N + G
D. K = N - G

7)



A. S = Z - J
B. S = Z + J
C. S = J + J
D. S = J - Z

8)



A. R = N - H
B. R = H - N
C. R = H + H
D. R = N + H

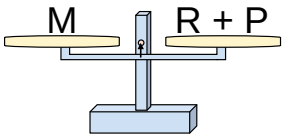
Answers

1. **B**
2. **A**
3. **C**
4. **C**
5. **D**
6. **C**
7. **B**
8. **D**

1-8	88	75	63	50	38	25	13	0

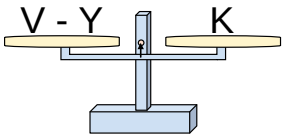
The scales shown are balanced. Determine which number sentence must be true.

1)



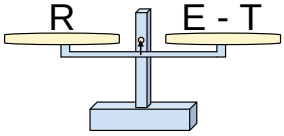
A. R = P + M
B. R = M - P
C. R = P - M
D. R = M + P

2)



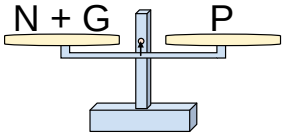
A. V = K - Y
B. V = Y + K
C. V = K + K
D. V = Y - K

3)



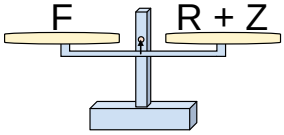
A. E = T + R
B. E = T - R
C. E = R + R
D. E = R - T

4)



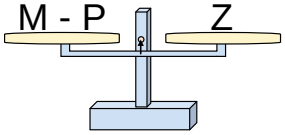
A. N = P - G
B. N = P + G
C. N = G - P
D. N = G + P

5)



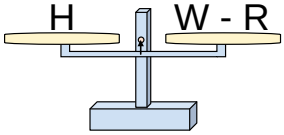
A. R = F - Z
B. R = Z + F
C. R = F + Z
D. R = Z - F

6)



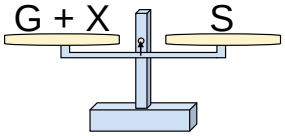
A. M = P + Z
B. M = P - Z
C. M = Z + Z
D. M = Z - P

7)



A. W = H - R
B. W = R + H
C. W = H + H
D. W = R - H

8)



A. G = S - X
B. G = X + S
C. G = S + X
D. G = X - S

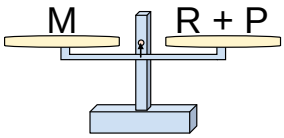
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

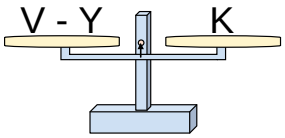
The scales shown are balanced. Determine which number sentence must be true.

1)



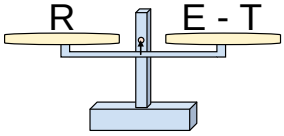
A. R = P + M
B. R = M - P
C. R = P - M
D. R = M + P

2)



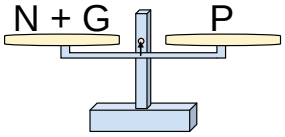
A. V = K - Y
B. V = Y + K
C. V = K + K
D. V = Y - K

3)



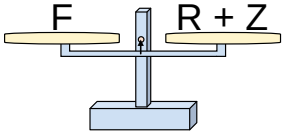
A. E = T + R
B. E = T - R
C. E = R + R
D. E = R - T

4)



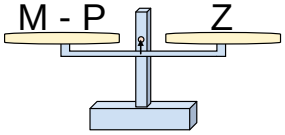
A. N = P - G
B. N = P + G
C. N = G - P
D. N = G + P

5)



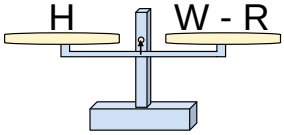
A. R = F - Z
B. R = Z + F
C. R = F + Z
D. R = Z - F

6)



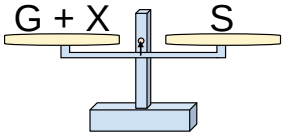
A. M = P + Z
B. M = P - Z
C. M = Z + Z
D. M = Z - P

7)



A. W = H - R
B. W = R + H
C. W = H + H
D. W = R - H

8)



A. G = S - X
B. G = X + S
C. G = S + X
D. G = X - S

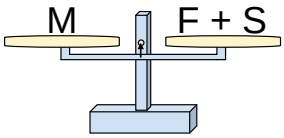
Answers

1. **B**
2. **B**
3. **A**
4. **A**
5. **A**
6. **A**
7. **B**
8. **A**

1-8	88	75	63	50	38	25	13	0

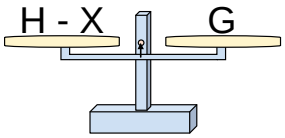
The scales shown are balanced. Determine which number sentence must be true.

1)



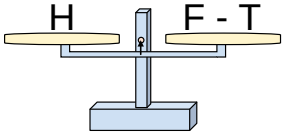
A. F = S - M
B. F = S + M
C. F = M - S
D. F = M + S

2)



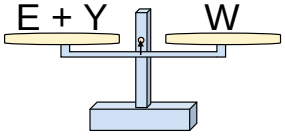
A. H = G + G
B. H = X - G
C. H = X + G
D. H = G - X

3)



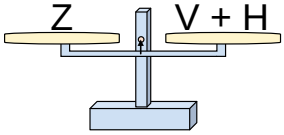
A. F = H - T
B. F = T - H
C. F = T + H
D. F = H + H

4)



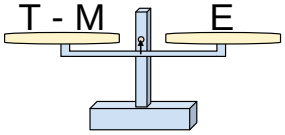
A. E = Y - W
B. E = Y + W
C. E = W - Y
D. E = W + Y

5)



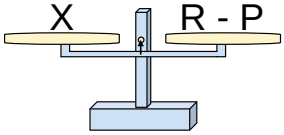
A. V = Z + H
B. V = H - Z
C. V = Z - H
D. V = H + Z

6)



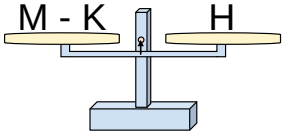
A. T = E - M
B. T = M + E
C. T = M - E
D. T = E + E

7)



A. R = P + X
B. R = P - X
C. R = X - P
D. R = X + X

8)



A. M = H - K
B. M = K - H
C. M = H + H
D. M = K + H

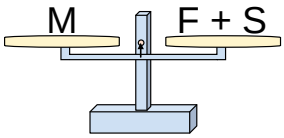
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

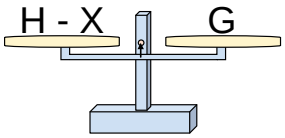
The scales shown are balanced. Determine which number sentence must be true.

1)



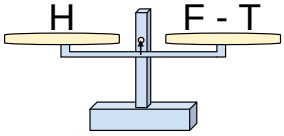
A. F = S - M
B. F = S + M
C. F = M - S
D. F = M + S

2)



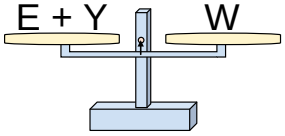
A. H = G + G
B. H = X - G
C. H = X + G
D. H = G - X

3)



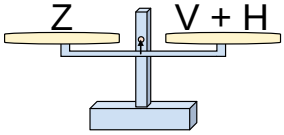
A. F = H - T
B. F = T - H
C. F = T + H
D. F = H + H

4)



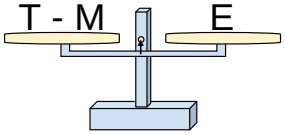
A. E = Y - W
B. E = Y + W
C. E = W - Y
D. E = W + Y

5)



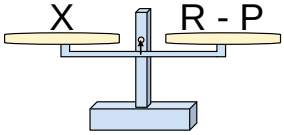
A. V = Z + H
B. V = H - Z
C. V = Z - H
D. V = H + Z

6)



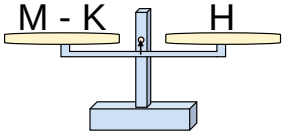
A. T = E - M
B. T = M + E
C. T = M - E
D. T = E + E

7)



A. R = P + X
B. R = P - X
C. R = X - P
D. R = X + X

8)



A. M = H - K
B. M = K - H
C. M = H + H
D. M = K + H

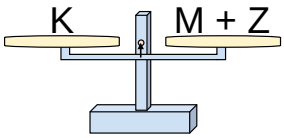
Answers

1. **C**
2. **C**
3. **C**
4. **C**
5. **C**
6. **B**
7. **A**
8. **D**

1-8	88	75	63	50	38	25	13	0

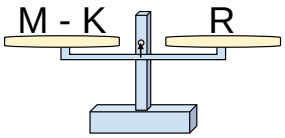
The scales shown are balanced. Determine which number sentence must be true.

1)



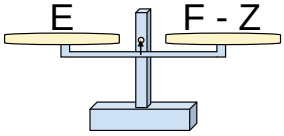
A. M = Z + K
B. M = Z - K
C. M = K + Z
D. M = K - Z

2)



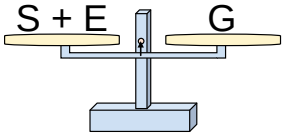
A. M = R + R
B. M = K - R
C. M = R - K
D. M = K + R

3)



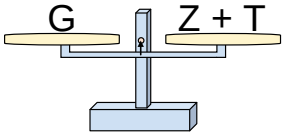
A. F = Z - E
B. F = E + E
C. F = E - Z
D. F = Z + E

4)



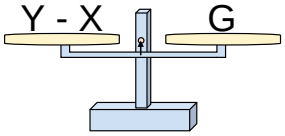
A. S = G - E
B. S = G + E
C. S = E - G
D. S = E + G

5)



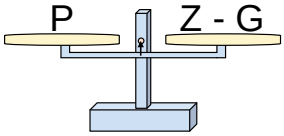
A. Z = G - T
B. Z = G + T
C. Z = T + G
D. Z = T - G

6)



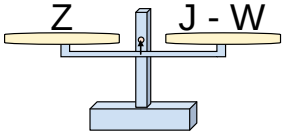
A. Y = X + G
B. Y = G - X
C. Y = X - G
D. Y = G + G

7)



A. Z = G - P
B. Z = P - G
C. Z = G + P
D. Z = P + P

8)



A. J = Z + Z
B. J = W - Z
C. J = Z - W
D. J = W + Z

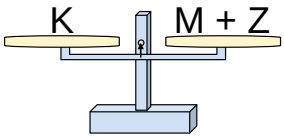
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

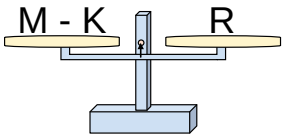
The scales shown are balanced. Determine which number sentence must be true.

1)



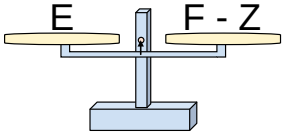
A. M = Z + K
B. M = Z - K
C. M = K + Z
D. M = K - Z

2)



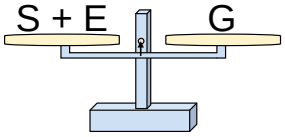
A. M = R + R
B. M = K - R
C. M = R - K
D. M = K + R

3)



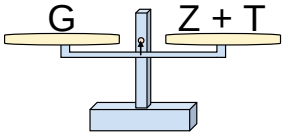
A. F = Z - E
B. F = E + E
C. F = E - Z
D. F = Z + E

4)



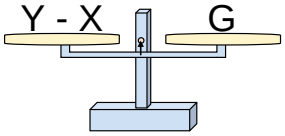
A. S = G - E
B. S = G + E
C. S = E - G
D. S = E + G

5)



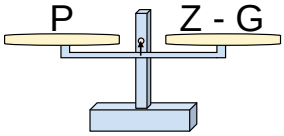
A. Z = G - T
B. Z = G + T
C. Z = T + G
D. Z = T - G

6)



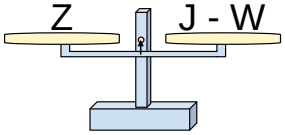
A. Y = X + G
B. Y = G - X
C. Y = X - G
D. Y = G + G

7)



A. Z = G - P
B. Z = P - G
C. Z = G + P
D. Z = P + P

8)



A. J = Z + Z
B. J = W - Z
C. J = Z - W
D. J = W + Z

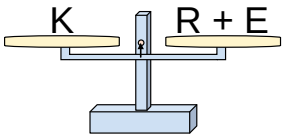
Answers

1. **D**
2. **D**
3. **D**
4. **A**
5. **A**
6. **A**
7. **C**
8. **D**

1-8	88	75	63	50	38	25	13	0

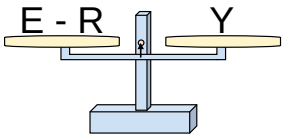
The scales shown are balanced. Determine which number sentence must be true.

1)



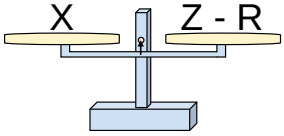
A. R = E - K
B. R = E + K
C. R = K + E
D. R = K - E

2)



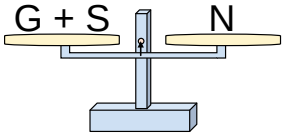
A. E = Y + Y
B. E = R + Y
C. E = R - Y
D. E = Y - R

3)



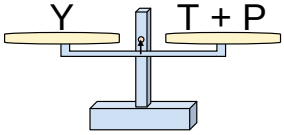
A. Z = R - X
B. Z = X + X
C. Z = X - R
D. Z = R + X

4)



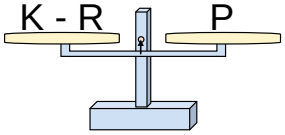
A. G = S + N
B. G = N + S
C. G = S - N
D. G = N - S

5)



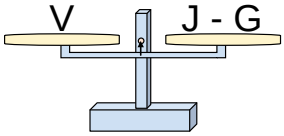
A. T = P + Y
B. T = P - Y
C. T = Y - P
D. T = Y + P

6)



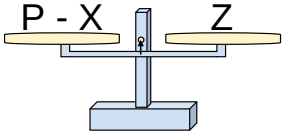
A. K = P + P
B. K = R - P
C. K = R + P
D. K = P - R

7)



A. J = G - V
B. J = G + V
C. J = V - G
D. J = V + V

8)



A. P = X - Z
B. P = X + Z
C. P = Z + Z
D. P = Z - X

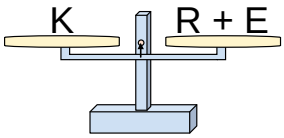
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

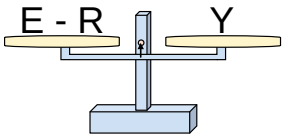
The scales shown are balanced. Determine which number sentence must be true.

1)



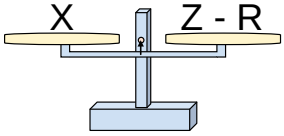
A. R = E - K
B. R = E + K
C. R = K + E
D. R = K - E

2)



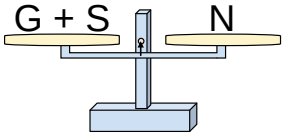
A. E = Y + Y
B. E = R + Y
C. E = R - Y
D. E = Y - R

3)



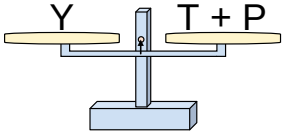
A. Z = R - X
B. Z = X + X
C. Z = X - R
D. Z = R + X

4)



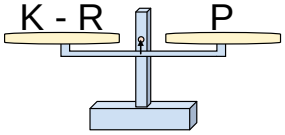
A. G = S + N
B. G = N + S
C. G = S - N
D. G = N - S

5)



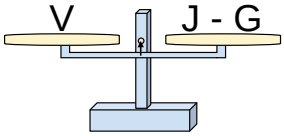
A. T = P + Y
B. T = P - Y
C. T = Y - P
D. T = Y + P

6)



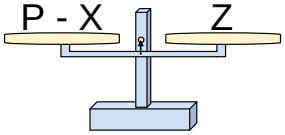
A. K = P + P
B. K = R - P
C. K = R + P
D. K = P - R

7)



A. J = G - V
B. J = G + V
C. J = V - G
D. J = V + V

8)



A. P = X - Z
B. P = X + Z
C. P = Z + Z
D. P = Z - X

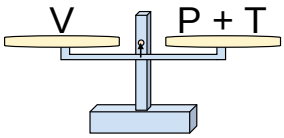
Answers

1. **D**
2. **B**
3. **D**
4. **D**
5. **C**
6. **C**
7. **B**
8. **B**

1-8	88	75	63	50	38	25	13	0

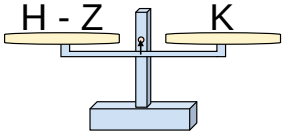
The scales shown are balanced. Determine which number sentence must be true.

1)



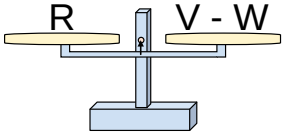
A. P = V - T
B. P = T + V
C. P = T - V
D. P = V + T

2)



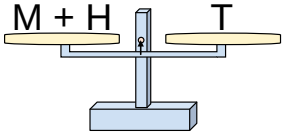
A. H = K + K
B. H = Z + K
C. H = K - Z
D. H = Z - K

3)



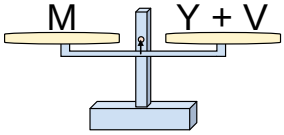
A. V = W + R
B. V = R - W
C. V = R + R
D. V = W - R

4)



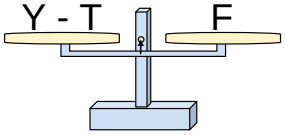
A. M = T + H
B. M = T - H
C. M = H + T
D. M = H - T

5)



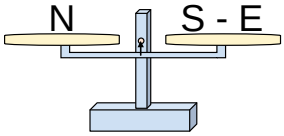
A. Y = M - V
B. Y = V - M
C. Y = M + V
D. Y = V + M

6)



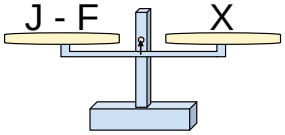
A. Y = F + F
B. Y = F - T
C. Y = T - F
D. Y = T + F

7)



A. S = E + N
B. S = N + N
C. S = N - E
D. S = E - N

8)



A. J = X + X
B. J = F + X
C. J = F - X
D. J = X - F

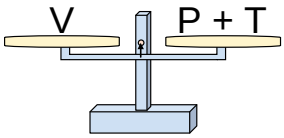
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

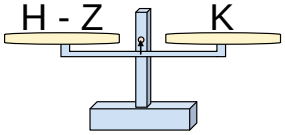
The scales shown are balanced. Determine which number sentence must be true.

1)



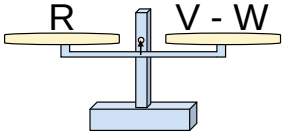
A. P = V - T
B. P = T + V
C. P = T - V
D. P = V + T

2)



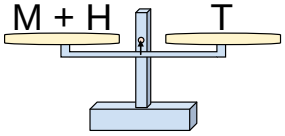
A. H = K + K
B. H = Z + K
C. H = K - Z
D. H = Z - K

3)



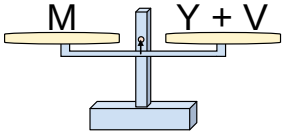
A. V = W + R
B. V = R - W
C. V = R + R
D. V = W - R

4)



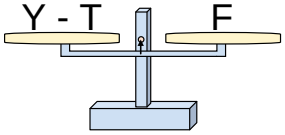
A. M = T + H
B. M = T - H
C. M = H + T
D. M = H - T

5)



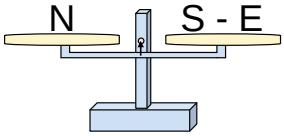
A. Y = M - V
B. Y = V - M
C. Y = M + V
D. Y = V + M

6)



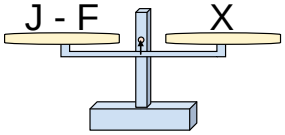
A. Y = F + F
B. Y = F - T
C. Y = T - F
D. Y = T + F

7)



A. S = E + N
B. S = N + N
C. S = N - E
D. S = E - N

8)



A. J = X + X
B. J = F + X
C. J = F - X
D. J = X - F

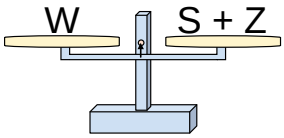
Answers

1. **A**
2. **B**
3. **A**
4. **B**
5. **A**
6. **D**
7. **A**
8. **B**

1-8	88	75	63	50	38	25	13	0

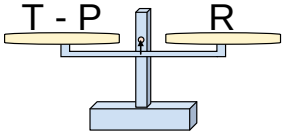
The scales shown are balanced. Determine which number sentence must be true.

1)



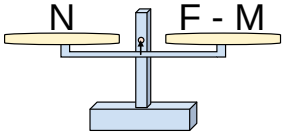
A. S = W + Z
B. S = Z + W
C. S = Z - W
D. S = W - Z

2)



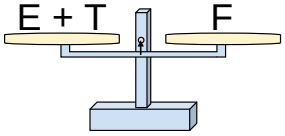
A. T = P - R
B. T = R - P
C. T = P + R
D. T = R + R

3)



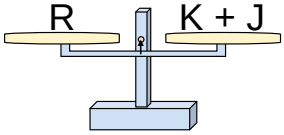
A. F = M + N
B. F = M - N
C. F = N - M
D. F = N + N

4)



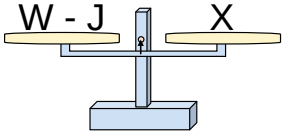
A. E = T + F
B. E = F - T
C. E = T - F
D. E = F + T

5)



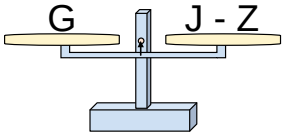
A. K = J - R
B. K = J + R
C. K = R - J
D. K = R + J

6)



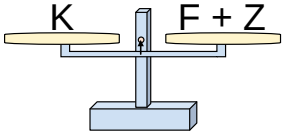
A. W = J + X
B. W = X - J
C. W = J - X
D. W = X + X

7)



A. J = Z + G
B. J = G - Z
C. J = Z - G
D. J = G + G

8)



A. F = Z - K
B. F = K - Z
C. F = Z + K
D. F = K + Z

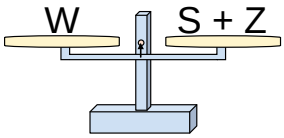
Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____

1-8	88	75	63	50	38	25	13	0

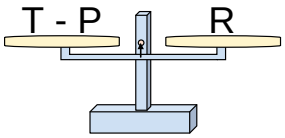
The scales shown are balanced. Determine which number sentence must be true.

1)



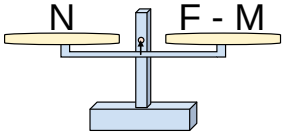
A. S = W + Z
B. S = Z + W
C. S = Z - W
D. S = W - Z

2)



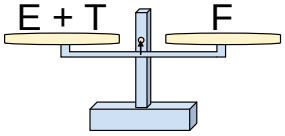
A. T = P - R
B. T = R - P
C. T = P + R
D. T = R + R

3)



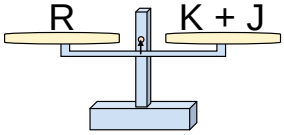
A. F = M + N
B. F = M - N
C. F = N - M
D. F = N + N

4)



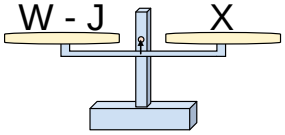
A. E = T + F
B. E = F - T
C. E = T - F
D. E = F + T

5)



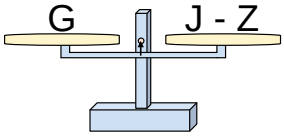
A. K = J - R
B. K = J + R
C. K = R - J
D. K = R + J

6)



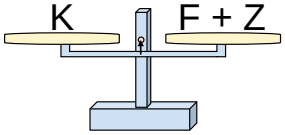
A. W = J + X
B. W = X - J
C. W = J - X
D. W = X + X

7)



A. J = Z + G
B. J = G - Z
C. J = Z - G
D. J = G + G

8)



A. F = Z - K
B. F = K - Z
C. F = Z + K
D. F = K + Z

Answers

1. **D**
2. **C**
3. **A**
4. **B**
5. **C**
6. **A**
7. **A**
8. **B**

1-8	88	75	63	50	38	25	13	0