Unknown Symbols in Equations (A)

Name: _____ Date: _____

Determine the value of each symbol.

1. $6 = \bullet \div 6$
2. $9 = 9 \div \blacksquare$
3. $8 \div 8 = \dagger$
4. $\bigstar = 14 \div 7$
5. $8 = 32 \div \natural$
6. $\cup \div 6 = 2$
7. $3 \div \blacktriangledown = 1$
8. $56 \div \blacklozenge = 7$
9. $5 = 30 \div \measuredangle$
10. $24 \div \oplus = 8$
11. $72 \div \varnothing = 8$
12. $\heartsuit = 12 \div 6$
13. $32 \div \otimes = 4$
14. $\diamondsuit = 40 \div 8$
15. $18 \div \S = 3$
16. $\odot = 42 \div 6$
17. $\clubsuit = 56 \div 7$
18. $\sharp = 10 \div 5$
19. $10 \div 5 = \triangle$
20. $\spadesuit = 24 \div 8$

Unknown Symbols in Equations (A) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $6 = \bullet \div 6$
   $\bullet = 36$

2. $9 = 9 \div \blacksquare$
   $\blacksquare = 1$

3. $8 \div 8 = \dagger$
   $\dagger = 1$

4. $\bigstar = 14 \div 7$
   $\bigstar = 2$

5. $8 = 32 \div \natural$
   $\natural = 4$

6. $\Cup \div 6 = 2$
   $\Cup = 12$

7. $3 \div \blacktriangledown = 1$
   $\blacktriangledown = 3$

8. $56 \div \blacklozenge = 7$
   $\blacklozenge = 8$

9. $5 = 30 \div \measuredangle$
   $\measuredangle = 6$

10. $24 \div \oplus = 8$
    $\oplus = 3$

11. $72 \div \varnothing = 8$
    $\varnothing = 9$

12. $\heartsuit = 12 \div 6$
    $\heartsuit = 2$

13. $32 \div \otimes = 4$
    $\otimes = 8$

14. $\diamondsuit = 40 \div 8$
    $\diamondsuit = 5$

15. $18 \div \S = 3$
    $\S = 6$

16. $\odot = 42 \div 6$
    $\odot = 7$

17. $\clubsuit = 56 \div 7$
    $\clubsuit = 8$

18. $\sharp = 10 \div 5$
    $\sharp = 2$

19. $10 \div 5 = \triangle$
    $\triangle = 2$

20. $\spadesuit = 24 \div 8$
    $\spadesuit = 3$

Unknown Symbols in Equations (B)

Name: _____ Date: _____

Determine the value of each symbol.

1. $16 \div 4 = \blacktriangledown$
2. $4 = \measuredangle \div 2$
3. $36 \div \bigstar = 9$
4. $2 = \heartsuit \div 9$
5. $28 \div 7 = \spadesuit$
6. $1 = \blacklozenge \div 7$
7. $5 = \diamondsuit \div 1$
8. $9 = 63 \div \otimes$
9. $9 \div 1 = \sharp$
10. $4 = \clubsuit \div 9$
11. $4 \div \S = 2$
12. $5 = \odot \div 8$
13. $5 = 45 \div \triangle$
14. $\varnothing = 42 \div 6$
15. $\natural \div 4 = 4$
16. $\cup = 24 \div 8$
17. $6 \div \blacksquare = 6$
18. $1 = \bullet \div 2$
19. $3 = \oplus \div 9$
20. $7 = \dagger \div 6$

Unknown Symbols in Equations (B) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $16 \div 4 = \blacktriangledown$
   $\blacktriangledown = 4$

2. $4 = \measuredangle \div 2$
   $\measuredangle = 8$

3. $36 \div \bigstar = 9$
   $\bigstar = 4$

4. $2 = \heartsuit \div 9$
   $\heartsuit = 18$

5. $28 \div 7 = \spadesuit$
   $\spadesuit = 4$

6. $1 = \blacklozenge \div 7$
   $\blacklozenge = 7$

7. $5 = \diamondsuit \div 1$
   $\diamondsuit = 5$

8. $9 = 63 \div \otimes$
   $\otimes = 7$

9. $9 \div 1 = \sharp$
   $\sharp = 9$

10. $4 = \clubsuit \div 9$
    $\clubsuit = 36$

11. $4 \div \S = 2$
    $\S = 2$

12. $5 = \odot \div 8$
    $\odot = 40$

13. $5 = 45 \div \triangle$
    $\triangle = 9$

14. $\varnothing = 42 \div 6$
    $\varnothing = 7$

15. $\natural \div 4 = 4$
    $\natural = 16$

16. $\cup = 24 \div 8$
    $\cup = 3$

17. $6 \div \blacksquare = 6$
    $\blacksquare = 1$

18. $1 = \bullet \div 2$
    $\bullet = 2$

19. $3 = \oplus \div 9$
    $\oplus = 27$

20. $7 = \dagger \div 6$
    $\dagger = 42$

Unknown Symbols in Equations (C)

Name: _____ Date: _____

Determine the value of each symbol.

1. $\blacksquare = 7 \div 1$
2. $\triangle \div 6 = 1$
3. $42 \div \oplus = 7$
4. $4 = 4 \div \blacktriangledown$
5. $\clubsuit = 4 \div 2$
6. $1 = 8 \div \natural$
7. $\otimes = 48 \div 8$
8. $\diamondsuit \div 3 = 7$
9. $56 \div \bullet = 7$
10. $5 = \blacklozenge \div 5$
11. $35 \div 5 = \measuredangle$
12. $\spadesuit = 6 \div 6$
13. $9 = \S \div 8$
14. $24 \div \dagger = 4$
15. $5 = 15 \div \Cup$
16. $7 = 63 \div \varnothing$
17. $42 \div \odot = 7$
18. $\heartsuit \div 7 = 6$
19. $10 \div \sharp = 5$
20. $\bigstar \div 7 = 7$

Unknown Symbols in Equations (C) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $\blacksquare = 7 \div 1$
   $\blacksquare = 7$

2. $\triangle \div 6 = 1$
   $\triangle = 6$

3. $42 \div \oplus = 7$
   $\oplus = 6$

4. $4 = 4 \div \blacktriangledown$
   $\blacktriangledown = 1$

5. $\clubsuit = 4 \div 2$
   $\clubsuit = 2$

6. $1 = 8 \div \natural$
   $\natural = 8$

7. $\otimes = 48 \div 8$
   $\otimes = 6$

8. $\diamondsuit \div 3 = 7$
   $\diamondsuit = 21$

9. $56 \div \bullet = 7$
   $\bullet = 8$

10. $5 = \blacklozenge \div 5$
    $\blacklozenge = 25$

11. $35 \div 5 = \measuredangle$
    $\measuredangle = 7$

12. $\spadesuit = 6 \div 6$
    $\spadesuit = 1$

13. $9 = \S \div 8$
    $\S = 72$

14. $24 \div \dagger = 4$
    $\dagger = 6$

15. $5 = 15 \div \Cup$
    $\Cup = 3$

16. $7 = 63 \div \varnothing$
    $\varnothing = 9$

17. $42 \div \odot = 7$
    $\odot = 6$

18. $\heartsuit \div 7 = 6$
    $\heartsuit = 42$

19. $10 \div \sharp = 5$
    $\sharp = 2$

20. $\bigstar \div 7 = 7$
    $\bigstar = 49$

Unknown Symbols in Equations (D)

Name: _____ Date: _____

Determine the value of each symbol.

1. $72 \div \dagger = 9$
2. $4 = 28 \div \otimes$
3. $40 \div 8 = \Cup$
4. $5 \div 5 = \clubsuit$
5. $8 = \heartsuit \div 1$
6. $3 \div \bullet = 3$
7. $\measuredangle = 28 \div 7$
8. $7 = 7 \div \triangle$
9. $6 \div \bigstar = 2$
10. $4 \div \varnothing = 1$
11. $\S \div 2 = 2$
12. $6 = \natural \div 3$
13. $\blacklozenge = 72 \div 8$
14. $\odot \div 2 = 9$
15. $\spadesuit \div 5 = 1$
16. $\sharp \div 4 = 8$
17. $10 \div \blacktriangledown = 2$
18. $16 \div 2 = \diamondsuit$
19. $7 = 7 \div \oplus$
20. $27 \div 3 = \blacksquare$

Unknown Symbols in Equations (D) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $72 \div \dagger = 9$
   $\dagger = 8$

2. $4 = 28 \div \otimes$
   $\otimes = 7$

3. $40 \div 8 = \Cup$
   $\Cup = 5$

4. $5 \div 5 = \clubsuit$
   $\clubsuit = 1$

5. $8 = \heartsuit \div 1$
   $\heartsuit = 8$

6. $3 \div \bullet = 3$
   $\bullet = 1$

7. $\measuredangle = 28 \div 7$
   $\measuredangle = 4$

8. $7 = 7 \div \triangle$
   $\triangle = 1$

9. $6 \div \bigstar = 2$
   $\bigstar = 3$

10. $4 \div \varnothing = 1$
    $\varnothing = 4$

11. $\S \div 2 = 2$
    $\S = 4$

12. $6 = \natural \div 3$
    $\natural = 18$

13. $\blacklozenge = 72 \div 8$
    $\blacklozenge = 9$

14. $\odot \div 2 = 9$
    $\odot = 18$

15. $\spadesuit \div 5 = 1$
    $\spadesuit = 5$

16. $\sharp \div 4 = 8$
    $\sharp = 32$

17. $10 \div \blacktriangledown = 2$
    $\blacktriangledown = 5$

18. $16 \div 2 = \diamondsuit$
    $\diamondsuit = 8$

19. $7 = 7 \div \oplus$
    $\oplus = 1$

20. $27 \div 3 = \blacksquare$
    $\blacksquare = 9$

Unknown Symbols in Equations (E)

Name: _____ Date: _____

Determine the value of each symbol.

1. $9 = 63 \div \blacksquare$
2. $\measuredangle \div 8 = 3$
3. $9 = \bullet \div 8$
4. $9 = 63 \div \dagger$
5. $\clubsuit = 81 \div 9$
6. $3 = 24 \div \S$
7. $\odot = 28 \div 4$
8. $6 = \natural \div 3$
9. $6 = \heartsuit \div 5$
10. $7 = 7 \div \blacklozenge$
11. $6 = 42 \div \varnothing$
12. $6 = 36 \div \blacktriangledown$
13. $3 = \triangle \div 1$
14. $3 = 3 \div \oplus$
15. $9 \div 1 = \otimes$
16. $\sharp \div 8 = 7$
17. $49 \div \Cup = 7$
18. $9 = \bigstar \div 7$
19. $\diamondsuit = 27 \div 9$
20. $6 = 24 \div \spadesuit$

Unknown Symbols in Equations (E) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $9 = 63 \div \blacksquare$
   $\blacksquare = 7$

2. $\measuredangle \div 8 = 3$
   $\measuredangle = 24$

3. $9 = \bullet \div 8$
   $\bullet = 72$

4. $9 = 63 \div \dagger$
   $\dagger = 7$

5. $\clubsuit = 81 \div 9$
   $\clubsuit = 9$

6. $3 = 24 \div \S$
   $\S = 8$

7. $\odot = 28 \div 4$
   $\odot = 7$

8. $6 = \natural \div 3$
   $\natural = 18$

9. $6 = \heartsuit \div 5$
   $\heartsuit = 30$

10. $7 = 7 \div \blacklozenge$
    $\blacklozenge = 1$

11. $6 = 42 \div \varnothing$
    $\varnothing = 7$

12. $6 = 36 \div \blacktriangledown$
    $\blacktriangledown = 6$

13. $3 = \triangle \div 1$
    $\triangle = 3$

14. $3 = 3 \div \oplus$
    $\oplus = 1$

15. $9 \div 1 = \otimes$
    $\otimes = 9$

16. $\sharp \div 8 = 7$
    $\sharp = 56$

17. $49 \div \Cup = 7$
    $\Cup = 7$

18. $9 = \bigstar \div 7$
    $\bigstar = 63$

19. $\diamondsuit = 27 \div 9$
    $\diamondsuit = 3$

20. $6 = 24 \div \spadesuit$
    $\spadesuit = 4$

Unknown Symbols in Equations (F)

Name: _____ Date: _____

Determine the value of each symbol.

1. $\bigstar \div 7 = 6$
2. $6 \div \heartsuit = 6$
3. $21 \div 7 = \bullet$
4. $4 = 20 \div \oplus$
5. $5 = 25 \div \natural$
6. $\blacktriangledown \div 9 = 4$
7. $28 \div 4 = \diamondsuit$
8. $6 \div \triangle = 3$
9. $\Cup = 12 \div 3$
10. $10 \div \S = 5$
11. $45 \div 9 = \otimes$
12. $1 = \odot \div 9$
13. $42 \div \blacksquare = 6$
14. $48 \div 8 = \sharp$
15. $28 \div \spadesuit = 7$
16. $8 = 72 \div \varnothing$
17. $8 = \measuredangle \div 7$
18. $6 \div \clubsuit = 2$
19. $2 = \blacklozenge \div 5$
20. $\dagger \div 4 = 1$

Unknown Symbols in Equations (F) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $\bigstar \div 7 = 6$
   $\bigstar = 42$

2. $6 \div \heartsuit = 6$
   $\heartsuit = 1$

3. $21 \div 7 = \bullet$
   $\bullet = 3$

4. $4 = 20 \div \oplus$
   $\oplus = 5$

5. $5 = 25 \div \natural$
   $\natural = 5$

6. $\blacktriangledown \div 9 = 4$
   $\blacktriangledown = 36$

7. $28 \div 4 = \diamondsuit$
   $\diamondsuit = 7$

8. $6 \div \triangle = 3$
   $\triangle = 2$

9. $\Cup = 12 \div 3$
   $\Cup = 4$

10. $10 \div \S = 5$
    $\S = 2$

11. $45 \div 9 = \otimes$
    $\otimes = 5$

12. $1 = \odot \div 9$
    $\odot = 9$

13. $42 \div \blacksquare = 6$
    $\blacksquare = 7$

14. $48 \div 8 = \sharp$
    $\sharp = 6$

15. $28 \div \spadesuit = 7$
    $\spadesuit = 4$

16. $8 = 72 \div \varnothing$
    $\varnothing = 9$

17. $8 = \measuredangle \div 7$
    $\measuredangle = 56$

18. $6 \div \clubsuit = 2$
    $\clubsuit = 3$

19. $2 = \blacklozenge \div 5$
    $\blacklozenge = 10$

20. $\dagger \div 4 = 1$
    $\dagger = 4$

Unknown Symbols in Equations (G)

Name: _____ Date: _____

Determine the value of each symbol.

1. $\natural \div 2 = 8$
2. $49 \div \sharp = 7$
3. $20 \div \odot = 4$
4. $3 = \bullet \div 8$
5. $7 = 21 \div \otimes$
6. $5 \div \varnothing = 5$
7. $6 = \spadesuit \div 8$
8. $64 \div 8 = \dagger$
9. $12 \div \blacklozenge = 6$
10. $\Cup = 45 \div 5$
11. $20 \div \clubsuit = 4$
12. $12 \div \blacksquare = 2$
13. $\triangle \div 4 = 1$
14. $8 \div \bigstar = 2$
15. $2 \div 2 = \heartsuit$
16. $4 = \oplus \div 9$
17. $\blacktriangledown \div 7 = 1$
18. $42 \div \diamondsuit = 7$
19. $6 = 12 \div \S$
20. $4 \div 1 = \measuredangle$

Unknown Symbols in Equations (G) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $\natural \div 2 = 8$
   $\natural = 16$

2. $49 \div \sharp = 7$
   $\sharp = 7$

3. $20 \div \odot = 4$
   $\odot = 5$

4. $3 = \bullet \div 8$
   $\bullet = 24$

5. $7 = 21 \div \otimes$
   $\otimes = 3$

6. $5 \div \varnothing = 5$
   $\varnothing = 1$

7. $6 = \spadesuit \div 8$
   $\spadesuit = 48$

8. $64 \div 8 = \dagger$
   $\dagger = 8$

9. $12 \div \blacklozenge = 6$
   $\blacklozenge = 2$

10. $\Cup = 45 \div 5$
    $\Cup = 9$

11. $20 \div \clubsuit = 4$
    $\clubsuit = 5$

12. $12 \div \blacksquare = 2$
    $\blacksquare = 6$

13. $\triangle \div 4 = 1$
    $\triangle = 4$

14. $8 \div \bigstar = 2$
    $\bigstar = 4$

15. $2 \div 2 = \heartsuit$
    $\heartsuit = 1$

16. $4 = \oplus \div 9$
    $\oplus = 36$

17. $\blacktriangledown \div 7 = 1$
    $\blacktriangledown = 7$

18. $42 \div \diamondsuit = 7$
    $\diamondsuit = 6$

19. $6 = 12 \div \S$
    $\S = 2$

20. $4 \div 1 = \measuredangle$
    $\measuredangle = 4$

Unknown Symbols in Equations (H)

Name: _____ Date: _____

Determine the value of each symbol.

1. $\blacksquare \div 8 = 3$
2. $2 = \heartsuit \div 6$
3. $7 = 7 \div \natural$
4. $\S \div 3 = 2$
5. $\blacklozenge = 24 \div 8$
6. $4 = 16 \div \spadesuit$
7. $\diamondsuit \div 7 = 8$
8. $24 \div \dagger = 4$
9. $2 = \oplus \div 3$
10. $18 \div 9 = \odot$
11. $2 = 18 \div \triangle$
12. $12 \div \varnothing = 4$
13. $7 = \blacktriangledown \div 9$
14. $4 = 24 \div \measuredangle$
15. $56 \div \otimes = 7$
16. $\Cup \div 7 = 4$
17. $56 \div \sharp = 7$
18. $\bullet \div 3 = 1$
19. $\clubsuit \div 4 = 1$
20. $4 = 8 \div \bigstar$

Unknown Symbols in Equations (H) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $\blacksquare \div 8 = 3$
   $\blacksquare = 24$

2. $2 = \heartsuit \div 6$
   $\heartsuit = 12$

3. $7 = 7 \div \natural$
   $\natural = 1$

4. $\S \div 3 = 2$
   $\S = 6$

5. $\blacklozenge = 24 \div 8$
   $\blacklozenge = 3$

6. $4 = 16 \div \spadesuit$
   $\spadesuit = 4$

7. $\diamondsuit \div 7 = 8$
   $\diamondsuit = 56$

8. $24 \div \dagger = 4$
   $\dagger = 6$

9. $2 = \oplus \div 3$
   $\oplus = 6$

10. $18 \div 9 = \odot$
    $\odot = 2$

11. $2 = 18 \div \triangle$
    $\triangle = 9$

12. $12 \div \varnothing = 4$
    $\varnothing = 3$

13. $7 = \blacktriangledown \div 9$
    $\blacktriangledown = 63$

14. $4 = 24 \div \measuredangle$
    $\measuredangle = 6$

15. $56 \div \otimes = 7$
    $\otimes = 8$

16. $\Cup \div 7 = 4$
    $\Cup = 28$

17. $56 \div \sharp = 7$
    $\sharp = 8$

18. $\bullet \div 3 = 1$
    $\bullet = 3$

19. $\clubsuit \div 4 = 1$
    $\clubsuit = 4$

20. $4 = 8 \div \bigstar$
    $\bigstar = 2$

Unknown Symbols in Equations (I)

Name: _____ Date: _____

Determine the value of each symbol.

1. $\bullet \div 9 = 5$
2. $16 \div 4 = \diamondsuit$
3. $14 \div \varnothing = 2$
4. $\oplus = 32 \div 8$
5. $3 = 18 \div \triangle$
6. $\heartsuit = 8 \div 1$
7. $12 \div 4 = \S$
8. $\dagger \div 4 = 5$
9. $\natural = 35 \div 7$
10. $1 = \bigstar \div 1$
11. $\clubsuit \div 8 = 8$
12. $\measuredangle = 8 \div 1$
13. $6 = 36 \div \odot$
14. $8 = \otimes \div 3$
15. $\Cup = 4 \div 2$
16. $\blacklozenge = 56 \div 7$
17. $\blacksquare \div 4 = 3$
18. $64 \div \spadesuit = 8$
19. $7 = \blacktriangledown \div 2$
20. $\sharp \div 1 = 1$

Unknown Symbols in Equations (I) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $\bullet \div 9 = 5$
   $\bullet = 45$

2. $16 \div 4 = \diamondsuit$
   $\diamondsuit = 4$

3. $14 \div \varnothing = 2$
   $\varnothing = 7$

4. $\oplus = 32 \div 8$
   $\oplus = 4$

5. $3 = 18 \div \triangle$
   $\triangle = 6$

6. $\heartsuit = 8 \div 1$
   $\heartsuit = 8$

7. $12 \div 4 = \S$
   $\S = 3$

8. $\dagger \div 4 = 5$
   $\dagger = 20$

9. $\natural = 35 \div 7$
   $\natural = 5$

10. $1 = \bigstar \div 1$
    $\bigstar = 1$

11. $\clubsuit \div 8 = 8$
    $\clubsuit = 64$

12. $\measuredangle = 8 \div 1$
    $\measuredangle = 8$

13. $6 = 36 \div \odot$
    $\odot = 6$

14. $8 = \otimes \div 3$
    $\otimes = 24$

15. $\cup = 4 \div 2$
    $\cup = 2$

16. $\blacklozenge = 56 \div 7$
    $\blacklozenge = 8$

17. $\blacksquare \div 4 = 3$
    $\blacksquare = 12$

18. $64 \div \spadesuit = 8$
    $\spadesuit = 8$

19. $7 = \blacktriangledown \div 2$
    $\blacktriangledown = 14$

20. $\sharp \div 1 = 1$
    $\sharp = 1$

Unknown Symbols in Equations (J)

Name: _____ Date: _____

Determine the value of each symbol.

1. $5 = \natural \div 8$
2. $2 = 10 \div \blacksquare$
3. $\sharp = 2 \div 1$
4. $\clubsuit \div 6 = 2$
5. $10 \div \blacktriangledown = 5$
6. $9 = \triangle \div 3$
7. $1 = 6 \div \otimes$
8. $\diamondsuit \div 2 = 7$
9. $5 \div \odot = 1$
10. $6 \div 2 = \bullet$
11. $1 = 2 \div \varnothing$
12. $6 = \measuredangle \div 8$
13. $4 = \oplus \div 7$
14. $\dagger \div 1 = 3$
15. $\blacklozenge \div 3 = 5$
16. $4 = \spadesuit \div 2$
17. $\bigstar \div 6 = 8$
18. $9 = \heartsuit \div 1$
19. $5 = 45 \div \Cup$
20. $8 = 40 \div \S$

Unknown Symbols in Equations (J) Answers

Name: _____ Date: _____

Determine the value of each symbol.

1. $5 = \natural \div 8$
   $\natural = 40$

2. $2 = 10 \div \blacksquare$
   $\blacksquare = 5$

3. $\sharp = 2 \div 1$
   $\sharp = 2$

4. $\clubsuit \div 6 = 2$
   $\clubsuit = 12$

5. $10 \div \blacktriangledown = 5$
   $\blacktriangledown = 2$

6. $9 = \triangle \div 3$
   $\triangle = 27$

7. $1 = 6 \div \otimes$
   $\otimes = 6$

8. $\diamondsuit \div 2 = 7$
   $\diamondsuit = 14$

9. $5 \div \odot = 1$
   $\odot = 5$

10. $6 \div 2 = \bullet$
    $\bullet = 3$

11. $1 = 2 \div \varnothing$
    $\varnothing = 2$

12. $6 = \measuredangle \div 8$
    $\measuredangle = 48$

13. $4 = \oplus \div 7$
    $\oplus = 28$

14. $\dagger \div 1 = 3$
    $\dagger = 3$

15. $\blacklozenge \div 3 = 5$
    $\blacklozenge = 15$

16. $4 = \spadesuit \div 2$
    $\spadesuit = 8$

17. $\bigstar \div 6 = 8$
    $\bigstar = 48$

18. $9 = \heartsuit \div 1$
    $\heartsuit = 9$

19. $5 = 45 \div \Cup$
    $\Cup = 9$

20. $8 = 40 \div \S$
    $\S = 5$