

Unknown Symbols in Equations (A)

Name: _____

Date: _____

Determine the value of each symbol.

1. $15 = \odot \div 6$

2. $133 \div 19 = \blacksquare$

3. $96 \div 16 = \S$

4. $8 = 152 \div \star$

5. $72 \div 18 = \spadesuit$

6. $19 \div \emptyset = 1$

7. $\dagger \div 1 = 10$

8. $4 = \ddagger \div 12$

9. $9 = \# \div 4$

10. $90 \div \blacklozenge = 9$

11. $8 = \heartsuit \div 14$

12. $81 \div \sphericalangle = 9$

13. $14 \div 7 = \cup$

14. $240 \div 12 = \blacktriangledown$

15. $\bullet = 104 \div 13$

16. $16 = 304 \div \clubsuit$

17. $70 \div \blacklozenge = 7$

18. $36 \div 18 = \oplus$

19. $\otimes \div 13 = 4$

20. $36 \div 18 = \triangle$

Unknown Symbols in Equations (A) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $15 = \odot \div 6$

$\odot = 90$

2. $133 \div 19 = \blacksquare$

$\blacksquare = 7$

3. $96 \div 16 = \S$

$\S = 6$

4. $8 = 152 \div \star$

$\star = 19$

5. $72 \div 18 = \spadesuit$

$\spadesuit = 4$

6. $19 \div \emptyset = 1$

$\emptyset = 19$

7. $\dagger \div 1 = 10$

$\dagger = 10$

8. $4 = \ddagger \div 12$

$\ddagger = 48$

9. $9 = \# \div 4$

$\# = 36$

10. $90 \div \blacklozenge = 9$

$\blacklozenge = 10$

11. $8 = \heartsuit \div 14$

$\heartsuit = 112$

12. $81 \div \sphericalangle = 9$

$\sphericalangle = 9$

13. $14 \div 7 = \cup$

$\cup = 2$

14. $240 \div 12 = \blacktriangledown$

$\blacktriangledown = 20$

15. $\bullet = 104 \div 13$

$\bullet = 8$

16. $16 = 304 \div \clubsuit$

$\clubsuit = 19$

17. $70 \div \blacklozenge = 7$

$\blacklozenge = 10$

18. $36 \div 18 = \oplus$

$\oplus = 2$

19. $\otimes \div 13 = 4$

$\otimes = 52$

20. $36 \div 18 = \triangle$

$\triangle = 2$

Unknown Symbols in Equations (B)

Name: _____

Date: _____

Determine the value of each symbol.

1. $\blacklozenge \div 13 = 12$

2. $20 \div \blackstar = 4$

3. $18 = \heartsuit \div 16$

4. $\bullet \div 5 = 5$

5. $3 = 21 \div \cup$

6. $\otimes = 40 \div 8$

7. $9 = \spadesuit \div 20$

8. $13 = 156 \div \blacktriangledown$

9. $180 \div 20 = \S$

10. $171 \div \blacklozenge = 19$

11. $\odot = 119 \div 7$

12. $98 \div \emptyset = 14$

13. $1 = 9 \div \triangle$

14. $\natural = 91 \div 13$

15. $3 = 3 \div \clubsuit$

16. $18 = \dagger \div 15$

17. $\blacksquare \div 11 = 13$

18. $198 \div 11 = \oplus$

19. $228 \div 12 = \#$

20. $3 \div 1 = \angle$

Unknown Symbols in Equations (B) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $\blacklozenge \div 13 = 12$

$\blacklozenge = 156$

2. $20 \div \star = 4$

$\star = 5$

3. $18 = \heartsuit \div 16$

$\heartsuit = 288$

4. $\bullet \div 5 = 5$

$\bullet = 25$

5. $3 = 21 \div \cup$

$\cup = 7$

6. $\otimes = 40 \div 8$

$\otimes = 5$

7. $9 = \spadesuit \div 20$

$\spadesuit = 180$

8. $13 = 156 \div \blacktriangledown$

$\blacktriangledown = 12$

9. $180 \div 20 = \S$

$\S = 9$

10. $171 \div \blacklozenge = 19$

$\blacklozenge = 9$

11. $\odot = 119 \div 7$

$\odot = 17$

12. $98 \div \emptyset = 14$

$\emptyset = 7$

13. $1 = 9 \div \triangle$

$\triangle = 9$

14. $\clubsuit = 91 \div 13$

$\clubsuit = 7$

15. $3 = 3 \div \clubsuit$

$\clubsuit = 1$

16. $18 = \dagger \div 15$

$\dagger = 270$

17. $\blacksquare \div 11 = 13$

$\blacksquare = 143$

18. $198 \div 11 = \oplus$

$\oplus = 18$

19. $228 \div 12 = \sharp$

$\sharp = 19$

20. $3 \div 1 = \sphericalangle$

$\sphericalangle = 3$

Unknown Symbols in Equations (C)

Name: _____

Date: _____

Determine the value of each symbol.

1. $\odot = 182 \div 14$

2. $12 = 132 \div \blacktriangledown$

3. $\clubsuit = 120 \div 8$

4. $\otimes = 20 \div 4$

5. $\star = 270 \div 18$

6. $32 \div 2 = \triangle$

7. $20 = \diamond \div 2$

8. $19 \div \oplus = 1$

9. $35 \div 7 = \natural$

10. $\heartsuit = 216 \div 18$

11. $25 \div 5 = \sphericalangle$

12. $150 \div 15 = \cup$

13. $\emptyset = 360 \div 18$

14. $\spadesuit = 224 \div 16$

15. $\blacklozenge \div 17 = 10$

16. $30 \div 10 = \dagger$

17. $90 \div 9 = \ddagger$

18. $130 \div 13 = \blacksquare$

19. $16 \div \bullet = 8$

20. $11 = 154 \div \S$

Unknown Symbols in Equations (C) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $\odot = 182 \div 14$

$\odot = 13$

2. $12 = 132 \div \blacktriangledown$

$\blacktriangledown = 11$

3. $\clubsuit = 120 \div 8$

$\clubsuit = 15$

4. $\otimes = 20 \div 4$

$\otimes = 5$

5. $\star = 270 \div 18$

$\star = 15$

6. $32 \div 2 = \triangle$

$\triangle = 16$

7. $20 = \diamond \div 2$

$\diamond = 40$

8. $19 \div \oplus = 1$

$\oplus = 19$

9. $35 \div 7 = \spadesuit$

$\spadesuit = 5$

10. $\heartsuit = 216 \div 18$

$\heartsuit = 12$

11. $25 \div 5 = \sphericalangle$

$\sphericalangle = 5$

12. $150 \div 15 = \cup$

$\cup = 10$

13. $\emptyset = 360 \div 18$

$\emptyset = 20$

14. $\spadesuit = 224 \div 16$

$\spadesuit = 14$

15. $\blacklozenge \div 17 = 10$

$\blacklozenge = 170$

16. $30 \div 10 = \dagger$

$\dagger = 3$

17. $90 \div 9 = \sharp$

$\sharp = 10$

18. $130 \div 13 = \blacksquare$

$\blacksquare = 10$

19. $16 \div \bullet = 8$

$\bullet = 2$

20. $11 = 154 \div \S$

$\S = 14$

Unknown Symbols in Equations (D)

Name: _____

Date: _____

Determine the value of each symbol.

1. $\xi = 60 \div 6$

2. $\clubsuit \div 5 = 15$

3. $20 = 400 \div \bullet$

4. $\blacklozenge = 289 \div 17$

5. $160 \div 10 = \emptyset$

6. $2 = 24 \div \star$

7. $40 \div 10 = \sphericalangle$

8. $\blacktriangledown \div 19 = 12$

9. $32 \div \dagger = 8$

10. $20 = \spadesuit \div 18$

11. $19 = 114 \div \odot$

12. $40 \div \natural = 2$

13. $9 = \otimes \div 12$

14. $208 \div \cup = 16$

15. $16 \div 16 = \triangle$

16. $102 \div 17 = \oplus$

17. $252 \div 18 = \blacksquare$

18. $\# \div 7 = 10$

19. $\heartsuit \div 6 = 16$

20. $7 = \blacklozenge \div 10$

Unknown Symbols in Equations (D) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $\xi = 60 \div 6$

$\xi = 10$

2. $\clubsuit \div 5 = 15$

$\clubsuit = 75$

3. $20 = 400 \div \bullet$

$\bullet = 20$

4. $\blacklozenge = 289 \div 17$

$\blacklozenge = 17$

5. $160 \div 10 = \emptyset$

$\emptyset = 16$

6. $2 = 24 \div \star$

$\star = 12$

7. $40 \div 10 = \sphericalangle$

$\sphericalangle = 4$

8. $\blacktriangledown \div 19 = 12$

$\blacktriangledown = 228$

9. $32 \div \dagger = 8$

$\dagger = 4$

10. $20 = \spadesuit \div 18$

$\spadesuit = 360$

11. $19 = 114 \div \odot$

$\odot = 6$

12. $40 \div \natural = 2$

$\natural = 20$

13. $9 = \otimes \div 12$

$\otimes = 108$

14. $208 \div \uplus = 16$

$\uplus = 13$

15. $16 \div 16 = \triangle$

$\triangle = 1$

16. $102 \div 17 = \oplus$

$\oplus = 6$

17. $252 \div 18 = \blacksquare$

$\blacksquare = 14$

18. $\sharp \div 7 = 10$

$\sharp = 70$

19. $\heartsuit \div 6 = 16$

$\heartsuit = 96$

20. $7 = \blacklozenge \div 10$

$\blacklozenge = 70$

Unknown Symbols in Equations (E)

Name: _____

Date: _____

Determine the value of each symbol.

1. $\blacksquare = 52 \div 4$

2. $\spadesuit = 2 \div 1$

3. $14 = \S \div 17$

4. $144 \div 8 = \bullet$

5. $225 \div 15 = \diamond$

6. $\triangle = 70 \div 5$

7. $119 \div 17 = \star$

8. $20 = 380 \div \sphericalangle$

9. $\# \div 12 = 4$

10. $\dagger = 16 \div 2$

11. $\cup = 169 \div 13$

12. $252 \div 14 = \blacktriangledown$

13. $\emptyset \div 19 = 3$

14. $\clubsuit = 16 \div 16$

15. $12 = 192 \div \oplus$

16. $30 \div \blacklozenge = 3$

17. $60 \div \odot = 12$

18. $5 = \dagger \div 15$

19. $\otimes = 8 \div 4$

20. $16 = 96 \div \heartsuit$

Unknown Symbols in Equations (E) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $\blacksquare = 52 \div 4$

$\blacksquare = 13$

2. $\spadesuit = 2 \div 1$

$\spadesuit = 2$

3. $14 = \xi \div 17$

$\xi = 238$

4. $144 \div 8 = \bullet$

$\bullet = 18$

5. $225 \div 15 = \diamond$

$\diamond = 15$

6. $\triangle = 70 \div 5$

$\triangle = 14$

7. $119 \div 17 = \star$

$\star = 7$

8. $20 = 380 \div \sphericalangle$

$\sphericalangle = 19$

9. $\# \div 12 = 4$

$\# = 48$

10. $\ddagger = 16 \div 2$

$\ddagger = 8$

11. $\mathbb{U} = 169 \div 13$

$\mathbb{U} = 13$

12. $252 \div 14 = \blacktriangledown$

$\blacktriangledown = 18$

13. $\emptyset \div 19 = 3$

$\emptyset = 57$

14. $\clubsuit = 16 \div 16$

$\clubsuit = 1$

15. $12 = 192 \div \oplus$

$\oplus = 16$

16. $30 \div \blacklozenge = 3$

$\blacklozenge = 10$

17. $60 \div \odot = 12$

$\odot = 5$

18. $5 = \dagger \div 15$

$\dagger = 75$

19. $\otimes = 8 \div 4$

$\otimes = 2$

20. $16 = 96 \div \heartsuit$

$\heartsuit = 6$

Unknown Symbols in Equations (F)

Name: _____

Date: _____

Determine the value of each symbol.

1. $18 = 90 \div \text{♯}$

2. $17 = 255 \div \text{★}$

3. $340 \div 20 = \text{†}$

4. $15 = 15 \div \text{♣}$

5. $90 \div 5 = \text{⊙}$

6. $11 = 11 \div \text{■}$

7. $\text{∠} \div 18 = 2$

8. $15 = \text{♠} \div 13$

9. $9 = \text{◇} \div 8$

10. $28 \div \text{⊗} = 4$

11. $135 \div 9 = \text{◆}$

12. $\text{⊕} = 45 \div 15$

13. $4 \div 1 = \text{●}$

14. $\text{∩} = 56 \div 7$

15. $225 \div \text{§} = 15$

16. $\text{‡} = 32 \div 2$

17. $20 = \text{△} \div 2$

18. $3 = 6 \div \text{▼}$

19. $16 = \text{♥} \div 18$

20. $5 \div \text{∅} = 5$

Unknown Symbols in Equations (F) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $18 = 90 \div \text{♠}$

$\text{♠} = 5$

2. $17 = 255 \div \text{★}$

$\text{★} = 15$

3. $340 \div 20 = \text{†}$

$\text{†} = 17$

4. $15 = 15 \div \text{♣}$

$\text{♣} = 1$

5. $90 \div 5 = \text{⊙}$

$\text{⊙} = 18$

6. $11 = 11 \div \text{■}$

$\text{■} = 1$

7. $\text{∠} \div 18 = 2$

$\text{∠} = 36$

8. $15 = \text{♠} \div 13$

$\text{♠} = 195$

9. $9 = \text{◇} \div 8$

$\text{◇} = 72$

10. $28 \div \text{⊗} = 4$

$\text{⊗} = 7$

11. $135 \div 9 = \text{◆}$

$\text{◆} = 15$

12. $\text{⊕} = 45 \div 15$

$\text{⊕} = 3$

13. $4 \div 1 = \text{●}$

$\text{●} = 4$

14. $\text{⊍} = 56 \div 7$

$\text{⊍} = 8$

15. $225 \div \text{§} = 15$

$\text{§} = 15$

16. $\text{‡} = 32 \div 2$

$\text{‡} = 16$

17. $20 = \text{△} \div 2$

$\text{△} = 40$

18. $3 = 6 \div \text{▼}$

$\text{▼} = 2$

19. $16 = \text{♥} \div 18$

$\text{♥} = 288$

20. $5 \div \text{∅} = 5$

$\text{∅} = 1$

Unknown Symbols in Equations (G)

Name: _____

Date: _____

Determine the value of each symbol.

1. $\text{♯} = 20 \div 10$

2. $\text{♥} = 24 \div 3$

3. $9 = \text{‡} \div 8$

4. $13 = 52 \div \bullet$

5. $\sphericalangle = 12 \div 2$

6. $\blacksquare \div 4 = 14$

7. $\triangle = 120 \div 12$

8. $171 \div 19 = \diamond$

9. $48 \div \oplus = 12$

10. $14 = \odot \div 20$

11. $16 = 272 \div \emptyset$

12. $\clubsuit \div 14 = 5$

13. $\cup = 209 \div 19$

14. $238 \div \blacktriangledown = 14$

15. $\spadesuit \div 16 = 14$

16. $\blacklozenge \div 11 = 1$

17. $\otimes \div 2 = 10$

18. $\S \div 2 = 19$

19. $18 = \dagger \div 8$

20. $6 \div \star = 3$

Unknown Symbols in Equations (G) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $\text{♯} = 20 \div 10$

$\text{♯} = 2$

2. $\heartsuit = 24 \div 3$

$\heartsuit = 8$

3. $9 = \text{‡} \div 8$

$\text{‡} = 72$

4. $13 = 52 \div \bullet$

$\bullet = 4$

5. $\sphericalangle = 12 \div 2$

$\sphericalangle = 6$

6. $\blacksquare \div 4 = 14$

$\blacksquare = 56$

7. $\triangle = 120 \div 12$

$\triangle = 10$

8. $171 \div 19 = \diamond$

$\diamond = 9$

9. $48 \div \oplus = 12$

$\oplus = 4$

10. $14 = \odot \div 20$

$\odot = 280$

11. $16 = 272 \div \emptyset$

$\emptyset = 17$

12. $\clubsuit \div 14 = 5$

$\clubsuit = 70$

13. $\cup = 209 \div 19$

$\cup = 11$

14. $238 \div \blacktriangledown = 14$

$\blacktriangledown = 17$

15. $\spadesuit \div 16 = 14$

$\spadesuit = 224$

16. $\blacklozenge \div 11 = 1$

$\blacklozenge = 11$

17. $\otimes \div 2 = 10$

$\otimes = 20$

18. $\S \div 2 = 19$

$\S = 38$

19. $18 = \dagger \div 8$

$\dagger = 144$

20. $6 \div \star = 3$

$\star = 2$

Unknown Symbols in Equations (H)

Name: _____

Date: _____

Determine the value of each symbol.

1. $54 \div \emptyset = 9$

2. $7 = \diamond \div 12$

3. $12 \div \bullet = 3$

4. $\blacklozenge = 105 \div 15$

5. $2 = 24 \div \otimes$

6. $5 = 30 \div \star$

7. $14 = 224 \div \blacktriangledown$

8. $176 \div 11 = \blacksquare$

9. $3 = \oplus \div 12$

10. $\# \div 18 = 6$

11. $\S = 272 \div 16$

12. $\text{♣} \div 15 = 11$

13. $120 \div \text{⊍} = 20$

14. $16 = 128 \div \clubsuit$

15. $35 \div 5 = \dagger$

16. $\odot = 143 \div 13$

17. $\triangle = 104 \div 13$

18. $\heartsuit = 33 \div 11$

19. $12 = \sphericalangle \div 14$

20. $90 \div \spadesuit = 15$

Unknown Symbols in Equations (H) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $54 \div \emptyset = 9$

$\emptyset = 6$

2. $7 = \diamond \div 12$

$\diamond = 84$

3. $12 \div \bullet = 3$

$\bullet = 4$

4. $\blacklozenge = 105 \div 15$

$\blacklozenge = 7$

5. $2 = 24 \div \otimes$

$\otimes = 12$

6. $5 = 30 \div \star$

$\star = 6$

7. $14 = 224 \div \blacktriangledown$

$\blacktriangledown = 16$

8. $176 \div 11 = \blacksquare$

$\blacksquare = 16$

9. $3 = \oplus \div 12$

$\oplus = 36$

10. $\# \div 18 = 6$

$\# = 108$

11. $\S = 272 \div 16$

$\S = 17$

12. $\b{q} \div 15 = 11$

$\b{q} = 165$

13. $120 \div \mathbb{U} = 20$

$\mathbb{U} = 6$

14. $16 = 128 \div \clubsuit$

$\clubsuit = 8$

15. $35 \div 5 = \dagger$

$\dagger = 7$

16. $\odot = 143 \div 13$

$\odot = 11$

17. $\triangle = 104 \div 13$

$\triangle = 8$

18. $\heartsuit = 33 \div 11$

$\heartsuit = 3$

19. $12 = \sphericalangle \div 14$

$\sphericalangle = 168$

20. $90 \div \spadesuit = 15$

$\spadesuit = 6$

Unknown Symbols in Equations (I)

Name: _____

Date: _____

Determine the value of each symbol.

1. $17 = \otimes \div 1$

2. $16 \div \star = 4$

3. $8 = \odot \div 6$

4. $\S = 72 \div 8$

5. $9 = 63 \div \emptyset$

6. $16 = \sphericalangle \div 13$

7. $\dagger = 112 \div 14$

8. $171 \div 9 = \oplus$

9. $19 = 209 \div \bullet$

10. $210 \div 14 = \clubsuit$

11. $14 = \cup \div 1$

12. $200 \div 20 = \diamond$

13. $16 = 48 \div \blacksquare$

14. $\heartsuit = 102 \div 6$

15. $320 \div 20 = \blacklozenge$

16. $\spadesuit = 133 \div 7$

17. $54 \div 18 = \blacktriangledown$

18. $\spadesuit = 24 \div 2$

19. $15 = \triangle \div 2$

20. $\# = 128 \div 16$

Unknown Symbols in Equations (I) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $17 = \otimes \div 1$

$\otimes = 17$

2. $16 \div \star = 4$

$\star = 4$

3. $8 = \odot \div 6$

$\odot = 48$

4. $\xi = 72 \div 8$

$\xi = 9$

5. $9 = 63 \div \emptyset$

$\emptyset = 7$

6. $16 = \sphericalangle \div 13$

$\sphericalangle = 208$

7. $\dagger = 112 \div 14$

$\dagger = 8$

8. $171 \div 9 = \oplus$

$\oplus = 19$

9. $19 = 209 \div \bullet$

$\bullet = 11$

10. $210 \div 14 = \clubsuit$

$\clubsuit = 15$

11. $14 = \cup \div 1$

$\cup = 14$

12. $200 \div 20 = \diamond$

$\diamond = 10$

13. $16 = 48 \div \blacksquare$

$\blacksquare = 3$

14. $\heartsuit = 102 \div 6$

$\heartsuit = 17$

15. $320 \div 20 = \blacklozenge$

$\blacklozenge = 16$

16. $\spadesuit = 133 \div 7$

$\spadesuit = 19$

17. $54 \div 18 = \blacktriangledown$

$\blacktriangledown = 3$

18. $\spadesuit = 24 \div 2$

$\spadesuit = 12$

19. $15 = \triangle \div 2$

$\triangle = 30$

20. $\# = 128 \div 16$

$\# = 8$

Unknown Symbols in Equations (J)

Name: _____

Date: _____

Determine the value of each symbol.

1. $3 = 51 \div \otimes$

2. $\blacklozenge = 45 \div 5$

3. $\# = 340 \div 20$

4. $120 \div \dagger = 10$

5. $14 = \heartsuit \div 14$

6. $65 \div 13 = \blacksquare$

7. $100 \div 10 = \odot$

8. $\diamond \div 16 = 8$

9. $160 \div \clubsuit = 10$

10. $17 = \emptyset \div 16$

11. $16 = \star \div 16$

12. $76 \div \oplus = 19$

13. $\blacktriangledown \div 7 = 16$

14. $7 \div 7 = \natural$

15. $\sphericalangle \div 6 = 4$

16. $\triangle = 95 \div 19$

17. $102 \div \spadesuit = 6$

18. $\S \div 5 = 9$

19. $\cup = 380 \div 19$

20. $16 = \bullet \div 16$

Unknown Symbols in Equations (J) Answers

Name: _____

Date: _____

Determine the value of each symbol.

1. $3 = 51 \div \otimes$

$\otimes = 17$

2. $\blacklozenge = 45 \div 5$

$\blacklozenge = 9$

3. $\# = 340 \div 20$

$\# = 17$

4. $120 \div \dagger = 10$

$\dagger = 12$

5. $14 = \heartsuit \div 14$

$\heartsuit = 196$

6. $65 \div 13 = \blacksquare$

$\blacksquare = 5$

7. $100 \div 10 = \odot$

$\odot = 10$

8. $\blacklozenge \div 16 = 8$

$\blacklozenge = 128$

9. $160 \div \clubsuit = 10$

$\clubsuit = 16$

10. $17 = \emptyset \div 16$

$\emptyset = 272$

11. $16 = \star \div 16$

$\star = 256$

12. $76 \div \oplus = 19$

$\oplus = 4$

13. $\blacktriangledown \div 7 = 16$

$\blacktriangledown = 112$

14. $7 \div 7 = \spadesuit$

$\spadesuit = 1$

15. $\sphericalangle \div 6 = 4$

$\sphericalangle = 24$

16. $\triangle = 95 \div 19$

$\triangle = 5$

17. $102 \div \spadesuit = 6$

$\spadesuit = 17$

18. $\S \div 5 = 9$

$\S = 45$

19. $\mathbb{U} = 380 \div 19$

$\mathbb{U} = 20$

20. $16 = \bullet \div 16$

$\bullet = 256$