

Name: _____

Date: _____

Ratios & Proportions

Grades 6 – 8 • 50 questions • Show your work

1. Write the ratio **18 : 30** in simplest form. _____

2. $\frac{3}{4} = \frac{x}{24}$ $x =$ _____

3. Write the ratio **20 : 12** in simplest form. _____

4. $\frac{1}{8} = \frac{x}{48}$ $x =$ _____

5. $\frac{3}{9} = \frac{x}{45}$ $x =$ _____

6. Write the ratio **15 : 12** in simplest form. _____

7. Write the ratio **28 : 32** in simplest form. _____

8. Write the ratio **21 : 24** in simplest form. _____

9. $\frac{4}{6} = \frac{x}{36}$ $x =$ _____

10. Write the ratio **54 : 24** in simplest form. _____

11. $\frac{4}{9} = \frac{x}{45}$ $x =$ _____

12. Write the ratio **5 : 10** in simplest form. _____

13. $\frac{5}{6} = \frac{x}{30}$ $x =$ _____

14. $\frac{7}{9} = \frac{x}{36}$ $x =$ _____

15. $\frac{4}{7} = \frac{x}{28}$ $x =$ _____

16. $\frac{2}{9} = \frac{x}{36}$ $x =$ _____

17. $\frac{1}{2} = \frac{x}{12}$ $x =$ _____

18. Write the ratio **9 : 3** in simplest form. _____

19. Write the ratio **30 : 5** in simplest form. _____

20. Write the ratio **54 : 12** in simplest form. _____

21. Write the ratio **15 : 9** in simplest form. _____

22. Write the ratio **30 : 42** in simplest form. _____

23. $\frac{4}{5} = \frac{x}{25}$ $x =$ _____

24. Write the ratio **6 : 54** in simplest form. _____

25. Write the ratio **6 : 12** in simplest form. _____

26. Write the ratio **6 : 8** in simplest form. _____

27. Write the ratio **12 : 4** in simplest form. _____

28. Write the ratio **6 : 36** in simplest form. _____

29. Write the ratio **9 : 12** in simplest form. _____

30. Write the ratio **6 : 4** in simplest form. _____

31. $\frac{2}{9} = \frac{x}{45}$ $x =$ _____

32. Write the ratio **4 : 8** in simplest form. _____

33. Write the ratio **8 : 12** in simplest form. _____

34. Write the ratio **4 : 14** in simplest form. _____

35. Write the ratio **54 : 30** in simplest form. _____

36. Write the ratio **10 : 14** in simplest form. _____

37. Write the ratio **15 : 10** in simplest form. _____

38. Write the ratio **2 : 4** in simplest form. _____

39. $\frac{1}{7} = \frac{x}{21}$ $x =$ _____

40. $\frac{2}{6} = \frac{x}{24}$ $x =$ _____

41. Write the ratio **4 : 16** in simplest form. _____

42. $\frac{1}{2} = \frac{x}{8}$ $x =$ _____

43. $\frac{2}{4} = \frac{x}{24}$ $x =$ _____

44. Write the ratio **12 : 16** in simplest form. _____

45. $\frac{3}{4} = \frac{x}{12}$ $x =$ _____

46. $\frac{2}{3} = \frac{x}{15}$ $x =$ _____

47. $\frac{5}{8} = \frac{x}{24}$ $x =$ _____

48. Write the ratio **3 : 6** in simplest form. _____

49. Write the ratio **8 : 6** in simplest form. _____

50. Write the ratio **5 : 40** in simplest form. _____

Answer Key — Ratios & Proportions

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|-------------|-------------|-------------|
| 1. $3 : 5$ | 2. 18 | 3. $5 : 3$ |
| 4. 6 | 5. 15 | 6. $5 : 4$ |
| 7. $7 : 8$ | 8. $7 : 8$ | 9. 24 |
| 10. $9 : 4$ | 11. 20 | 12. $1 : 2$ |
| 13. 25 | 14. 28 | 15. 16 |
| 16. 8 | 17. 6 | 18. $3 : 1$ |
| 19. $6 : 1$ | 20. $9 : 2$ | 21. $5 : 3$ |
| 22. $5 : 7$ | 23. 20 | 24. $1 : 9$ |
| 25. $1 : 2$ | 26. $3 : 4$ | 27. $3 : 1$ |
| 28. $1 : 6$ | 29. $3 : 4$ | 30. $3 : 2$ |
| 31. 10 | 32. $1 : 2$ | 33. $2 : 3$ |
| 34. $2 : 7$ | 35. $9 : 5$ | 36. $5 : 7$ |
| 37. $3 : 2$ | 38. $1 : 2$ | 39. 3 |
| 40. 8 | 41. $1 : 4$ | 42. 4 |
| 43. 12 | 44. $3 : 4$ | 45. 9 |
| 46. 10 | 47. 15 | 48. $1 : 2$ |
| 49. $4 : 3$ | 50. $1 : 8$ | |
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