

1. $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$
 2. $\frac{1}{4} - \frac{1}{8} = \frac{2}{8} - \frac{1}{8} = \frac{1}{8}$
 3. $\frac{2}{5} \times \frac{3}{4} = \frac{2 \times 3}{5 \times 4} = \frac{6}{20} = \frac{3}{10}$
 4. $\frac{3}{7} \div \frac{2}{5} = \frac{3}{7} \times \frac{5}{2} = \frac{15}{14}$

5. $\frac{1}{2} \times \frac{3}{4} = \frac{3}{8}$
 6. $\frac{2}{3} \div \frac{1}{4} = \frac{2}{3} \times \frac{4}{1} = \frac{8}{3}$
 7. $\frac{1}{5} + \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$
 8. $\frac{3}{8} - \frac{1}{4} = \frac{3}{8} - \frac{2}{8} = \frac{1}{8}$

9. $\frac{4}{9} \times \frac{5}{6} = \frac{4 \times 5}{9 \times 6} = \frac{20}{54} = \frac{10}{27}$
 10. $\frac{1}{3} \div \frac{2}{7} = \frac{1}{3} \times \frac{7}{2} = \frac{7}{6}$

11. $\frac{2}{5} \times \frac{3}{10} = \frac{2 \times 3}{5 \times 10} = \frac{6}{50} = \frac{3}{25}$
 12. $\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4} = \frac{3}{2}$

13. $\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$
 14. $\frac{2}{7} \times \frac{3}{5} = \frac{2 \times 3}{7 \times 5} = \frac{6}{35}$

15. $\frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4}{3} = \frac{4}{6} = \frac{2}{3}$
 16. $\frac{3}{10} \times \frac{4}{6} = \frac{3 \times 4}{10 \times 6} = \frac{12}{60} = \frac{1}{5}$

17. $\frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{12}{18} = \frac{2}{3}$
 18. $\frac{1}{5} + \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$

19. $\frac{2}{3} \times \frac{5}{6} = \frac{2 \times 5}{3 \times 6} = \frac{10}{18} = \frac{5}{9}$
 20. $\frac{3}{8} \div \frac{1}{4} = \frac{3}{8} \times \frac{4}{1} = \frac{12}{8} = \frac{3}{2}$

21. $\frac{5}{12} - \frac{1}{6} = \frac{5}{12} - \frac{2}{12} = \frac{3}{12} = \frac{1}{4}$
 22. $\frac{2}{7} \times \frac{3}{5} = \frac{2 \times 3}{7 \times 5} = \frac{6}{35}$

23. $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$
 24. $\frac{3}{10} \times \frac{4}{6} = \frac{3 \times 4}{10 \times 6} = \frac{12}{60} = \frac{1}{5}$

25. $\frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{12}{18} = \frac{2}{3}$
 26. $\frac{1}{5} + \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$

27. $\frac{2}{3} \times \frac{5}{6} = \frac{2 \times 5}{3 \times 6} = \frac{10}{18} = \frac{5}{9}$
 28. $\frac{3}{8} \div \frac{1}{4} = \frac{3}{8} \times \frac{4}{1} = \frac{12}{8} = \frac{3}{2}$

29. $\frac{5}{12} - \frac{1}{6} = \frac{5}{12} - \frac{2}{12} = \frac{3}{12} = \frac{1}{4}$
 30. $\frac{2}{7} \times \frac{3}{5} = \frac{2 \times 3}{7 \times 5} = \frac{6}{35}$

31. $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$
 32. $\frac{3}{10} \times \frac{4}{6} = \frac{3 \times 4}{10 \times 6} = \frac{12}{60} = \frac{1}{5}$

33. $\frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \times \frac{3}{2} = \frac{12}{18} = \frac{2}{3}$
 34. $\frac{1}{5} + \frac{2}{10} = \frac{2}{10} + \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$

35. $\frac{2}{3} \times \frac{5}{6} = \frac{2 \times 5}{3 \times 6} = \frac{10}{18} = \frac{5}{9}$
 36. $\frac{3}{8} \div \frac{1}{4} = \frac{3}{8} \times \frac{4}{1} = \frac{12}{8} = \frac{3}{2}$

37. $\frac{5}{12} - \frac{1}{6} = \frac{5}{12} - \frac{2}{12} = \frac{3}{12} = \frac{1}{4}$
 38. $\frac{2}{7} \times \frac{3}{5} = \frac{2 \times 3}{7 \times 5} = \frac{6}{35}$

39. $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$
 40. $\frac{3}{10} \times \frac{4}{6} = \frac{3 \times 4}{10 \times 6} = \frac{12}{60} = \frac{1}{5}$

- 8 cars and 14 trucks. Ratio of trucks to cars: 14:8
- Total shots: 24
Shots made: 18
Shots missed: 6
Ratio of shots made : total shots 18:24

3.

Type of flower	Number of bulbs
Rose	7
Sun flower	20
Tulip	8

Using the table, how many Sun flowers are planted for every 7 rose bulbs? 20

- $\frac{16}{10}$ and $\frac{8}{2}$ are they equivalent? NO Prove $\frac{16}{10} = 1\frac{6}{10}$ $\frac{8}{2} = 4$
- YMS ordered 5 textbooks for every 3 students. How many text books would YMS order for 12 students? 20 BOOKS $\frac{5}{3} \times 12 = \frac{x}{12}$ $x = 20$
- $\frac{14}{21} = \frac{2}{x}$ What is the value of X to make the ratio equivalent? x = 3
- Show all the ways to express 5:3 as a ratio: 5:3, 5 to 3, $\frac{5}{3}$
- 8 pairs of socks cost \$24.00. Unit rate or cost of 1 pair \$3.00 $\rightarrow \$24 \div 8$
- You are driving 50 miles per hour. If you drive for 2 hours how many miles will you go? 50 x 2 = 100 miles in 2 hours
- Find the value of N in the following proportion

$$\frac{8}{2} \times \frac{7}{5} = \frac{n}{5} \quad n = 20$$

$$\frac{28}{5} = \frac{n}{5} \quad n = 28$$

- Find the percent. 25/100 25%
- Find the percent. 4/8 $\frac{1}{2} = 50\%$
- Find the percent. $\frac{2}{5}$ $\frac{40}{100} = 40\%$
- What is 20% of 100 20
- What is 30% of 50 15
- 10 is 50% of what number? 20
- 20 is 20% of what number? 100
- Write 20% as a fraction $\frac{20}{100} = \frac{10}{50} = \frac{1}{5}$
- Write .6 as a percent 60%
- Write .05 as a percent 5%
- Write the fraction as a decimal $\frac{5}{8}$.625

$$14. \frac{x}{100} \times \frac{20}{100} = \frac{100 \times 20}{100} = \frac{2000}{100}$$

$$15. \frac{x}{50} \times \frac{30}{100} = \frac{100 \times 30}{100} = \frac{1500}{100}$$

$$16. \frac{10}{x} = \frac{50}{100} \quad \frac{50 \times x}{50} = \frac{100 \times 50}{50} = 20$$

$$17. \frac{20}{x} \times \frac{20}{100} = \frac{20 \times 20}{20} = \frac{2000}{20} = 100$$

$$21. \begin{array}{r} .625 \\ 8 \overline{) 5.000} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$