Dividing unit fractions and whole numbers

Dividing by a whole number makes each part smaller; dividing by a unit fraction asks how many fit.

Name _____ Date _____

1. $7 \div \frac{1}{9} =$
2. $5 \div \frac{1}{5} =$
3. $\frac{1}{9} \div 7 =$
4. $3 \div \frac{1}{5} =$
5. $10 \div \frac{1}{7} =$
6. $\frac{1}{5} \div 2 =$
7. $\frac{1}{7} \div 10 =$
8. $5 \div \frac{1}{9} =$
9. $\frac{1}{4} \div 9 =$
10. $\frac{1}{2} \div 4 =$
11. $\frac{1}{8} \div 2 =$
12. $\frac{1}{7} \div 8 =$
13. $\frac{1}{6} \div 4 =$
14. $\frac{1}{3} \div 4 =$
15. $\frac{1}{6} \div 8 =$
16. $2 \div \frac{1}{9} =$
17. $6 \div \frac{1}{3} =$
18. $4 \div \frac{1}{5} =$
19. $8 \div \frac{1}{7} =$
20. $10 \div \frac{1}{8} =$

Dividing unit fractions and whole numbers: answer key

Each answer in colour, with the working before it.

1. $7 \div \frac{1}{9} = 7 \times 9 = 63$
2. $5 \div \frac{1}{5} = 5 \times 5 = 25$
3. $\frac{1}{9} \div 7 = \frac{1}{9} \times \frac{1}{7} = \frac{1}{63}$
4. $3 \div \frac{1}{5} = 3 \times 5 = 15$
5. $10 \div \frac{1}{7} = 10 \times 7 = 70$
6. $\frac{1}{5} \div 2 = \frac{1}{5} \times \frac{1}{2} = \frac{1}{10}$
7. $\frac{1}{7} \div 10 = \frac{1}{7} \times \frac{1}{10} = \frac{1}{70}$
8. $5 \div \frac{1}{9} = 5 \times 9 = 45$
9. $\frac{1}{4} \div 9 = \frac{1}{4} \times \frac{1}{9} = \frac{1}{36}$
10. $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$
11. $\frac{1}{8} \div 2 = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$
12. $\frac{1}{7} \div 8 = \frac{1}{7} \times \frac{1}{8} = \frac{1}{56}$
13. $\frac{1}{6} \div 4 = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$
14. $\frac{1}{3} \div 4 = \frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$
15. $\frac{1}{6} \div 8 = \frac{1}{6} \times \frac{1}{8} = \frac{1}{48}$
16. $2 \div \frac{1}{9} = 2 \times 9 = 18$
17. $6 \div \frac{1}{3} = 6 \times 3 = 18$
18. $4 \div \frac{1}{5} = 4 \times 5 = 20$
19. $8 \div \frac{1}{7} = 8 \times 7 = 56$
20. $10 \div \frac{1}{8} = 10 \times 8 = 80$