

Name:

## Arcturus' Order of Operations Quest

Help Arcturus solve the order of operations questions below!

1.  $(\frac{3}{4})^2 + \frac{3}{16} =$

2.  $(\frac{3}{2} \times \frac{6}{4} - \frac{4}{2}) + \frac{2^4}{4} =$

3.  $(\frac{2^3}{6} \div \frac{1}{5}) - \frac{9}{6} =$

4.  $\frac{5}{3} + \frac{5}{3} \div \frac{3}{5} - 3 =$

5.  $5^2 + (\frac{14}{15} - \frac{3}{5}) \times \frac{6}{2} =$

6.  $(\frac{2}{3})^2 \times \frac{4}{3} + \frac{2}{3} =$

7.  $\frac{5}{3} + 4\frac{1}{2} \times \frac{2}{9} =$

8.  $(\frac{2}{4} + 2) \times \frac{4}{7} =$

9.  $(\frac{7}{8} \div \frac{1}{3} - \frac{5}{4}) + 3^2 =$

10.  $\frac{2}{4} + (\frac{2}{4} \div \frac{4}{2}) - \frac{2}{4} =$

11.  $\frac{6}{10} + 3 \times \frac{2}{4} =$

12.  $\frac{3}{4} + (\frac{12}{4} \div \frac{3}{2}) =$

13.  $\frac{4}{3} + (\frac{3}{4} \times \frac{4}{3}) - \frac{3}{4} =$

14.  $(\frac{2^3}{2} \times 3 + \frac{6}{1}) - \frac{6}{2} =$

15.  $7 \times (\frac{2}{4} \div \frac{1}{2}) - \frac{1}{4} =$

16.  $\frac{6}{2} + \frac{2}{6} \times \frac{6}{2} - \frac{2}{6} =$

17.  $(\frac{3}{3} + \frac{3^3}{3}) \times \frac{3}{3} =$

18.  $\frac{7}{3} + (\frac{7}{3} - \frac{7}{3} \div 2\frac{1}{3}) =$

19.  $\frac{12}{2} - 6^2 \div \frac{6}{1} =$

20.  $(\frac{3}{2})^2 + \frac{3}{2} \times \frac{2}{3} =$



# Arcturus' Order of Operations Quest

## Order of Operations with Fractions

### Answer Key

$$1. \left(\frac{3}{4}\right)^2 + \frac{3}{16} = \frac{3}{4}$$

$$2. \left(\frac{3}{2} \times \frac{6}{4} - \frac{4}{2}\right) + \frac{2^4}{4} = 4\frac{1}{4}$$

$$3. \left(\frac{2^3}{6} \div \frac{1}{5}\right) - \frac{9}{6} = 5\frac{1}{6}$$

$$4. \frac{5}{3} + \frac{5}{3} \div \frac{3}{5} - 3 = 1\frac{4}{9}$$

$$5. 5^2 + \left(\frac{14}{15} - \frac{3}{5}\right) \times \frac{6}{2} = 26$$

$$6. \left(\frac{2}{3}\right)^2 \times \frac{4}{3} + \frac{2}{3} = 1\frac{7}{27}$$

$$7. \frac{5}{3} + 4\frac{1}{2} \times \frac{2}{9} = 2\frac{2}{3}$$

$$8. \left(\frac{2}{4} + 2\right) \times \frac{4}{7} = 1\frac{3}{7}$$

$$9. \left(\frac{7}{8} \div \frac{1}{3} - \frac{5}{4}\right) + 3^2 = \frac{1}{4}$$

$$10. \frac{2}{4} + \left(\frac{2}{4} \div \frac{4}{2}\right) - \frac{2}{4} = \frac{5}{16}$$

$$11. \frac{6}{10} + 3 \times \frac{2}{4} = 2\frac{1}{10}$$

$$12. \frac{3}{4} + \left(\frac{12}{4} \div \frac{3}{2}\right) = 2\frac{3}{4}$$

$$13. \frac{4}{3} + \left(\frac{3}{4} \times \frac{4}{3}\right) - \frac{3}{4} = 1\frac{7}{12}$$

$$14. \left(\frac{2^3}{2} \times 3 + \frac{6}{1}\right) - \frac{6}{2} = 15$$

$$15. 7 \times \left(\frac{2}{4} \div \frac{1}{2}\right) - \frac{1}{4} = 6\frac{3}{4}$$

$$16. \frac{6}{2} + \frac{2}{6} \times \frac{6}{2} - \frac{2}{6} = 3\frac{2}{3}$$

$$17. \left(\frac{3}{3} + \frac{3^3}{3}\right) \times \frac{3}{3} = 10$$

$$18. \frac{7}{3} + \left(\frac{7}{3} - \frac{7}{3} \div 2\frac{1}{3}\right) = 3\frac{2}{3}$$

$$19. \frac{12}{2} - 6^2 \div \frac{6}{1} = 0$$

$$20. \left(\frac{3}{2}\right)^2 + \frac{3}{2} \times \frac{2}{3} = 3\frac{1}{4}$$