

Basic Math Review for Admission Testing

Review:

Fraction Multiplication

Multiply the numerators

Multiply the denominators

Reduce answer to lowest form

1. $\frac{8}{9} \times \frac{54}{32} =$ _____

2. $3\frac{4}{5} \times \frac{15}{4} =$ _____

3. $6 \times 5\frac{7}{8} =$ _____

4. $\frac{3}{8} \times \frac{5}{6} \times \frac{16}{5} =$ _____

Fraction Division

Change the division sign to a multiplication sign

Invert the divisor

Multiply the numerators

Multiply the denominators

Reduce answer to lowest form

5. $\frac{8}{15} \div \frac{4}{25} =$ _____

6. $\frac{1}{2} \div 0 =$ _____

7. $7\frac{7}{9} \div 3\frac{7}{21} =$ _____

Adding Fractions

Change all denominators to lowest common denominator

Add numerators

Reduce answer to lowest form

8. $\frac{1}{3} + \frac{4}{5} =$ _____

9. $4\frac{1}{3} + 6\frac{3}{4} =$ _____

10. $\frac{1}{3} + \frac{1}{8} + \frac{1}{9} =$ _____

11. $3\frac{3}{20} + 7\frac{7}{15} + 2\frac{1}{10} =$ _____

Subtraction of Fractions

Change all denominators to lowest common denominator

Subtract numerators

Reduce answer to lowest form

12. $\frac{5}{6} - \frac{3}{4} =$ _____

13. $7\frac{5}{6} - 4\frac{3}{14} =$ _____

14. $5\frac{3}{8} - 2\frac{5}{8} =$ _____

15. $16 \frac{1}{8} - 13 \frac{11}{12} =$ _____

Multiplying Decimals

Multiply as any whole number

Count number of decimal places (starting from the right) in both factors

Place decimal point in answer (starting from right) number of total decimal places in factors

16. 67.5

$\times 0.84$

17. 0.07

$\times 0.0063$

18. 0.6

$\times 0.9$

19. 6.234

$\times 2.25$

Dividing Decimals

Make the divisor a whole number by moving decimal to right

Move decimal place in dividend same number of places to right

Place decimal place in quotient (answer) right above new decimal place in dividend

20. $12.2 \overline{) 9.76}$

21. $0.85 \overline{) 41.905}$

22. $1.87 \overline{) 170.6562}$

Answers to Review:

1. $\frac{1}{1/2}$

2. $14 \frac{1}{4}$

3. $35 \frac{1}{4}$

4. 1

5. $3 \frac{1}{3}$

6. 0

7. $2 \frac{1}{3}$

8. $1 \frac{2}{15}$

9. $11 \frac{1}{12}$

10. $\frac{41}{72}$

11. $12 \frac{43}{60}$

12. $1/12$
13. $3 \frac{13}{21}$
14. $2 \frac{3}{4}$
15. $2 \frac{5}{54}$
16. 56.7
17. 0.000441
18. 0.54
19. 14.0265
20. 0.8
21. 49.3
22. 91.26