

Saint Michael School  
Recommended Summer Math  
(For students entering grades 6, 7, and 8)

Dear SMS Jr. High Parents, Guardians, and Students,

The summer math has been selected from the junior high Sadlier-Oxford Textbook Series online “Skills Update” sections.

Please complete only the pages for the grade for which you are entering in the fall.

**Do ONLY the EVEN problems on each page.**

Use notebook paper if you are accessing these files online and can't print the pages out or if you need more space. Submit all work, including notebook pages, during the first week of school.

Try to spread out the work and not leave it all until the end of summer. Further help can be found at [khanacademy.org](http://khanacademy.org) if additional review of the content is needed.

The worksheets are available for download at [school.saint-michael.com](http://school.saint-michael.com)

If you have any questions about your summer assignment, please email:  
[lseeley@saint-michael.com](mailto:lseeley@saint-michael.com).

Thank you and have a safe, enjoyable summer!

Lauren Seeley  
Jr. High Math

Name \_\_\_\_\_

## Round Whole Numbers and Decimals

### Round to the nearest hundred.

1. 5673                      2. 934  
\_\_\_\_\_

3. 10,928                      4. 9182  
\_\_\_\_\_

5. 15,664                      6. 4555                      7. 312                      8. 9845                      9. 7124  
\_\_\_\_\_

**Remember:**  
If the digit to the right of the one you are rounding to is *less than 5*, then the first digit does not change.  
If the digit to the right of the one you are rounding to is 5 or *greater*, then round the first digit up.

### Round to the nearest thousand.

10. 1786                      11. 198,756                      12. 3967                      13. 27,650                      14. 5437  
\_\_\_\_\_

15. 11,099                      16. 3,875,508                      17. 26,147                      18. 8756                      19. 1754  
\_\_\_\_\_

### Round to the nearest thousandth.

20. 0.0983                      21. 1.7865                      22. 0.4821                      23. 0.00765                      24. 4.09876  
\_\_\_\_\_

25. 0.01605                      26. 6.16511                      27. 0.56477                      28. 2.00987                      29. 4.4563  
\_\_\_\_\_

30. 0.00812                      31. 0.15674                      32. 9.00178                      33. 0.6574                      34. 0.0345  
\_\_\_\_\_

### Round to the greatest nonzero place.

35. 0.76198                      36. 3.002                      37. 4.6574                      38. 0.542                      39. 5.0023  
\_\_\_\_\_

40. 7.0897                      41. 82.01                      42. 12.956                      43. 1.512                      44. 6.8101  
\_\_\_\_\_

Name \_\_\_\_\_

## Add and Subtract Fractions

**Add. Write the sum in simplest form.**

1.  $\frac{2}{3} + \frac{1}{4}$

2.  $\frac{2}{5} + \frac{5}{6}$

\_\_\_\_\_

\_\_\_\_\_

3.  $\frac{7}{8} + \frac{1}{2}$

4.  $\frac{3}{4} + \frac{1}{9}$

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6.  $\frac{2}{7} + \frac{2}{5}$

7.  $\frac{7}{9} + \frac{1}{2}$

8.  $\frac{2}{3} + \frac{4}{5}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

9.  $\frac{5}{6} + \frac{1}{2}$

10.  $\frac{7}{9} + \frac{1}{3}$

11.  $\frac{1}{6} + \frac{1}{4}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

12.  $\frac{8}{11} + \frac{2}{3}$

13.  $\frac{5}{7} + \frac{2}{3}$

14.  $\frac{1}{36} + \frac{5}{6}$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Remember:**

Find the least common denominator (LCD) of the fractions.

Rename each fraction as an equivalent fraction with the LCD as the denominator.

Add. Express the sum in simplest form.

Name \_\_\_\_\_

**Subtract. Write the difference in simplest form.**

15.  $\frac{6}{7} - \frac{3}{5}$

16.  $\frac{1}{2} - \frac{1}{4}$

**Remember:**  
Find the least common denominator (LCD) of the fractions.  
Rename each fraction as an equivalent fraction with the LCD as the denominator.  
Subtract. Express the difference in simplest form.

17.  $\frac{5}{6} - \frac{2}{5}$

18.  $\frac{2}{5} - \frac{1}{3}$

19.  $\frac{4}{7} - \frac{2}{6}$

20.  $\frac{3}{4} - \frac{2}{5}$

21.  $\frac{5}{9} - \frac{2}{5}$

22.  $\frac{3}{4} - \frac{5}{7}$

23.  $\frac{8}{11} - \frac{3}{7}$

24.  $\frac{5}{8} - \frac{2}{5}$

25.  $\frac{4}{5} - \frac{1}{3}$

26.  $\frac{7}{12} - \frac{1}{6}$

27.  $\frac{9}{10} - \frac{1}{5}$

28.  $\frac{7}{14} - \frac{3}{7}$

29.  $\frac{1}{2} - \frac{1}{9}$

30.  $\frac{9}{21} - \frac{1}{3}$

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

Name \_\_\_\_\_

## Multiply Fractions

**Multiply.**

**Remember:**

Multiply the numerators. Then multiply the denominators. Write the product in simplest form.

1.  $\frac{2}{5} \times \frac{1}{2} =$  \_\_\_\_\_

2.  $\frac{4}{7} \times \frac{2}{3} =$  \_\_\_\_\_

3.  $\frac{1}{2} \times \frac{3}{8} =$  \_\_\_\_\_

4.  $\frac{8}{9} \times \frac{1}{4} =$  \_\_\_\_\_

5.  $\frac{1}{6} \times \frac{1}{7} =$  \_\_\_\_\_

6.  $\frac{3}{8} \times \frac{2}{3} =$  \_\_\_\_\_

7.  $\frac{6}{8} \times \frac{1}{4} =$  \_\_\_\_\_

8.  $\frac{4}{10} \times \frac{2}{3} =$  \_\_\_\_\_

9.  $\frac{1}{3} \times \frac{1}{4} =$  \_\_\_\_\_

10.  $\frac{7}{9} \times \frac{4}{7} =$  \_\_\_\_\_

11.  $\frac{1}{2} \times \frac{3}{4} =$  \_\_\_\_\_

12.  $\frac{1}{9} \times \frac{2}{3} =$  \_\_\_\_\_

13.  $\frac{4}{5} \times \frac{1}{6} =$  \_\_\_\_\_

14.  $\frac{2}{8} \times \frac{1}{8} =$  \_\_\_\_\_

**Multiply using the greatest common factor.**

15.  $\frac{2}{5} \times \frac{15}{16} =$  \_\_\_\_\_

16.  $\frac{5}{8} \times \frac{8}{9} =$  \_\_\_\_\_

17.  $\frac{3}{4} \times \frac{6}{7} =$  \_\_\_\_\_

18.  $\frac{1}{5} \times \frac{20}{21} =$  \_\_\_\_\_

19.  $\frac{9}{11} \times \frac{22}{27} =$  \_\_\_\_\_

20.  $\frac{2}{7} \times \frac{7}{8} =$  \_\_\_\_\_

21.  $\frac{8}{12} \times \frac{6}{7} =$  \_\_\_\_\_

22.  $\frac{4}{9} \times \frac{6}{10} =$  \_\_\_\_\_

23.  $\frac{4}{16} \times \frac{1}{4} =$  \_\_\_\_\_

24.  $\frac{2}{5} \times \frac{5}{8} =$  \_\_\_\_\_

25.  $\frac{3}{7} \times \frac{14}{15} =$  \_\_\_\_\_

26.  $\frac{14}{20} \times \frac{4}{7} =$  \_\_\_\_\_

27.  $\frac{6}{10} \times \frac{5}{6} =$  \_\_\_\_\_

28.  $\frac{4}{5} \times \frac{25}{28} =$  \_\_\_\_\_

**Remember:**

Divide *any* numerator and denominator by the greatest common factor (GCF). Multiply the numerators. Then multiply the denominators. The product will be in simplest form.

Name \_\_\_\_\_

## Divide Fractions

**Divide.**

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

\_\_\_\_\_

2.  $\frac{6}{10} \div \frac{4}{5} =$

\_\_\_\_\_

3.  $\frac{2}{7} \div \frac{2}{3} =$

\_\_\_\_\_

4.  $\frac{5}{8} \div \frac{1}{2} =$

\_\_\_\_\_

5.  $\frac{6}{12} \div \frac{6}{10} =$

\_\_\_\_\_

6.  $\frac{8}{20} \div \frac{2}{4} =$

\_\_\_\_\_

7.  $\frac{5}{9} \div \frac{1}{3} =$

\_\_\_\_\_

8.  $\frac{14}{15} \div \frac{2}{3} =$

\_\_\_\_\_

9.  $\frac{11}{22} \div \frac{1}{2} =$

\_\_\_\_\_

10.  $\frac{2}{3} \div \frac{1}{9} =$

\_\_\_\_\_

11.  $\frac{12}{24} \div \frac{3}{4} =$

\_\_\_\_\_

12.  $\frac{5}{6} \div \frac{1}{4} =$

\_\_\_\_\_

13.  $\frac{9}{10} \div \frac{3}{5} =$

\_\_\_\_\_

14.  $\frac{1}{3} \div \frac{1}{9} =$

\_\_\_\_\_

**Remember:**

Multiply by the reciprocal of the divisor. Simplify using the GCF, where possible. Then multiply the numerators and the denominators.

Rename the product as a whole or mixed number when needed.

Name \_\_\_\_\_

**Multiply Decimals****Find the product. Show your work.**

1. 
$$\begin{array}{r} 3.14 \\ \times 12 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 0.406 \\ \times 0.62 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 7.99 \\ \times 0.11 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 0.43 \\ \times 73 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 2.75 \\ \times 2.5 \\ \hline \end{array}$$

6. 
$$\begin{array}{r} 0.81 \\ \times 22 \\ \hline \end{array}$$

7. 
$$\begin{array}{r} 1.13 \\ \times 0.8 \\ \hline \end{array}$$

8. 
$$\begin{array}{r} 2.01 \\ \times 38 \\ \hline \end{array}$$

9. 
$$\begin{array}{r} 0.345 \\ \times 1.2 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 92.15 \\ \times 0.33 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 0.346 \\ \times 0.81 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 4.13 \\ \times 10 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} 7.1 \\ \times 1.7 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 0.123 \\ \times 25 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 4.01 \\ \times 8.1 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 0.111 \\ \times 3.3 \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 0.35 \\ \times 24 \\ \hline \end{array}$$

18. 
$$\begin{array}{r} 7.54 \\ \times 0.7 \\ \hline \end{array}$$

19. 
$$\begin{array}{r} 6.32 \\ \times 4 \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 1.41 \\ \times 55 \\ \hline \end{array}$$

21. 
$$\begin{array}{r} 0.60 \\ \times 2.4 \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 9.01 \\ \times 5 \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 47.13 \\ \times 0.2 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 3.08 \\ \times 1.3 \\ \hline \end{array}$$

25. 
$$\begin{array}{r} 0.414 \\ \times 65 \\ \hline \end{array}$$

26. 
$$\begin{array}{r} 1.98 \\ \times 45 \\ \hline \end{array}$$

**Remember:**

Multiply as you would with whole numbers.

Count the number of decimal places in both factors.

Mark off the same number of decimal places in the product.

Name \_\_\_\_\_

## Divide Decimals

**Find the quotient. Show your work.**

1.  $4.32 \div 0.6$

2.  $1.56 \div 0.4$

So  $4.32 \div 0.6 =$  \_\_\_\_\_

So  $1.56 \div 0.4 =$  \_\_\_\_\_

3.  $55.1 \div 0.25$

4.  $3.75 \div 0.3$

5.  $0.910 \div 0.7$

So  $55.1 \div 0.25 =$  \_\_\_\_\_

So  $3.75 \div 0.3 =$  \_\_\_\_\_

So  $0.910 \div 0.7 =$  \_\_\_\_\_

6.  $7.26 \div 1.2$

7.  $0.081 \div 0.09$

8.  $16.33 \div 7.1$

So  $7.26 \div 1.2 =$  \_\_\_\_\_

So  $0.081 \div 0.09 =$  \_\_\_\_\_

So  $16.33 \div 7.1 =$  \_\_\_\_\_

9.  $6.84 \div 3.8$

10.  $42.84 \div 8.4$

11.  $99.15 \div 0.3$

So  $6.84 \div 3.8 =$  \_\_\_\_\_

So  $42.84 \div 8.4 =$  \_\_\_\_\_

So  $99.15 \div 0.3 =$  \_\_\_\_\_

**Remember:**

Move the decimal point in the divisor to form a whole number divisor.

Move the decimal point in the dividend to the right the same number of places.

Write the decimal point in the quotient directly above the decimal point in the dividend.

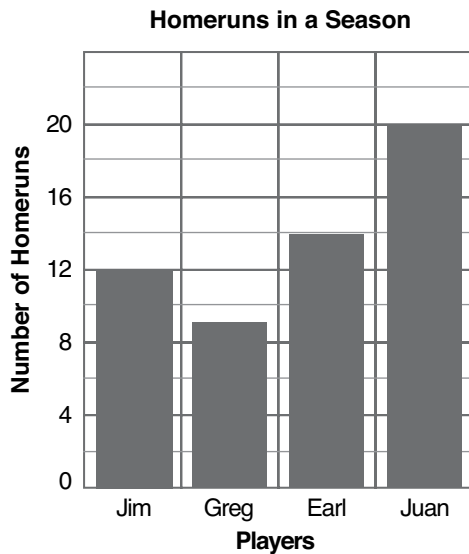
Divide as you would with whole numbers.



Name \_\_\_\_\_

## Bar Graphs

Use the bar graph to answer questions 1 – 4



**Remember:**

A bar graph is used to compare numerical data.

1. Which player hit the least number of home runs?

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2. How did the bar graph help you answer question 1?

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3. Which player hit the greatest number of homeruns?

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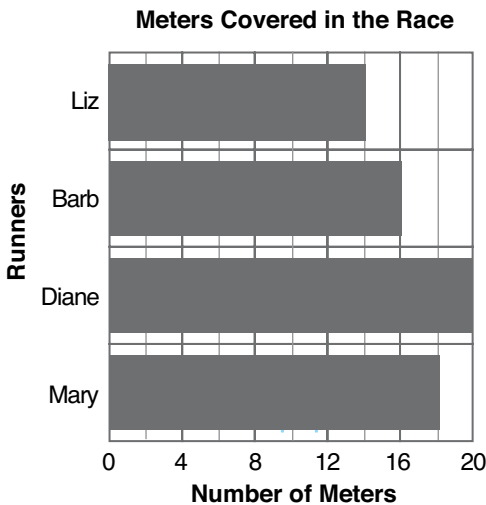
4. How did the bar graph help you answer question 3?

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Use the bar graph to answer questions 5 – 8



5. Which runner ran the greatest number of meters?

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6. How did the bar graph help you answer question 5?

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7. Which runner ran the least number of meters?

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8. How did the bar graph help you answer question 7?

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