

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

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

The 2020 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 this work 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 to the end of summer. Further help can be found at [khanacademy.org](https://www.khanacademy.org) if additional review of the content is needed.

The worksheets are available for download at [school.saint-michael.com](https://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! I look forward to seeing you all in the fall!

Lauren Seeley  
Jr. High Math

**The following pages are all grade 7 work. Do the EVEN problems on every page except the last one. Answer all questions on the last page.**

Read the gray box to the right. Do NOT place the decimal in the work rows. Multiply as usual. At the end, place the decimal point as directed in the notes to the right.

Name \_\_\_\_\_

## Multiply Decimals Show Your Work

Find the product. Show your work.

1. 
$$\begin{array}{r} 3.14 \\ \times 12 \\ \hline 628 \\ 3140 \\ \hline 37.68 \end{array}$$

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

3. 
$$\begin{array}{r} 7.99 \\ \times 0.11 \\ \hline 799 \\ 7990 \\ \hline 0.8789 \end{array}$$

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 \_\_\_\_\_

## Add and Subtract Fractions

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

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

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

Find the LCM of 3 and 4. That will be the LCD for the fractions.

$\frac{2}{3}$  is the same as  $\frac{8}{12}$ . (times 4 top and bottom)  
 $\frac{1}{4}$  is the same as  $\frac{3}{12}$  (times 3 top and bottom)

$\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$

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

Like addition, make the fractions  
have the same denominators,  
and then subtract the numerators.

**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**

Please read the notes to the right

**Remember:**

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

**Multiply.**

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

Keep Change Flip. Keep the first fraction the same. Change the operation to multiplication. Then change the second fraction to its reciprocal (Flip it). Then multiply the fractions..

\_\_\_\_\_

\_\_\_\_\_

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 \_\_\_\_\_

**Divide.**

15.  $\frac{16}{18} \div \frac{2}{9} =$

\_\_\_\_\_

16.  $\frac{4}{7} \div \frac{4}{1} =$

\_\_\_\_\_

17.  $\frac{5}{8} \div \frac{1}{12} =$

\_\_\_\_\_

18.  $\frac{1}{10} \div \frac{1}{2} =$

\_\_\_\_\_

19.  $\frac{2}{8} \div \frac{2}{5} =$

\_\_\_\_\_

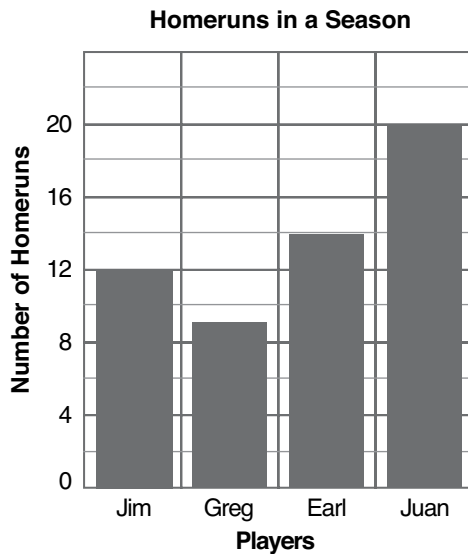
20.  $\frac{3}{4} \div \frac{1}{6} =$

\_\_\_\_\_

Name Answer ALL of the questions on this page - even and odd.

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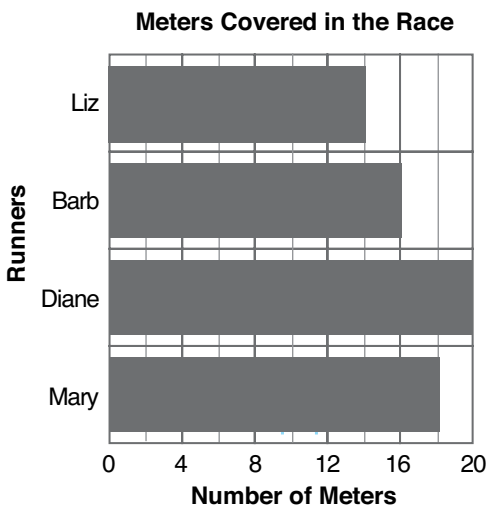
4. How did the bar graph help you answer question 3?

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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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