

AMERICAN MATH HW
WEEK OF 18NOV TO 23NOV

Due Date: 11/25 by midnight

Focus for the week: The focus of the HW this week is to Review basics of Fractions that have been covered in third grade. You will need to master these foundational skills before we move on to multiplication and Division of fractions after we come back from the Thanksgiving break. The HW for this week is focuses on:

- Finding equivalent fractions
- Comparing two fractions ($>$, $<$, $=$)
- Ordering two or more fractions (least to greatest or vice versa)
- Converting fraction to simplest form
- Adding two or more fractions
- Subtracting two fractions
- Word problems - Addition and subtraction of fractions

Pacing guideline: Work on 15 problems per day.

Uploading Instructions: This HW has two parts to finish. Complete BOTH PARTS.

1. Work on this file to show complete work and upload completed file on Archie.
2. Enter your final answer on IXL and save your answer.

IMPORTANT – Please do not show your work on IXL. Use that to put only final answer. Your work should be shown on this file and uploaded through Archie.

Note: For additional help or practice, refer to the resources link on Archie.

American Math HW-Week of 18Nov to 22Nov

1. Which expression is equivalent to $\frac{10}{16}$?

$$\frac{10 \times 2}{16 \div 2}$$

$$\frac{10 - 2}{16 - 2}$$

$$\frac{10 \div 2}{16 \div 2}$$

$$\frac{10 + 2}{16 + 2}$$

Use the expression you chose to find a fraction equivalent to $\frac{10}{16}$.

$$\frac{10}{16} = \frac{\boxed{}}{\boxed{}}$$

2. Which expression is equivalent to $\frac{15}{10}$?

$$\frac{15 \div 5}{10 \div 5}$$

$$\frac{15 \div 5}{10 \times 5}$$

$$\frac{15 - 5}{10 + 5}$$

$$\frac{15 \times 5}{10 \div 5}$$

Use the expression you chose to find a fraction equivalent to $\frac{15}{10}$.

$$\frac{15}{10} = \frac{\boxed{}}{\boxed{}}$$

3. Which expression is equivalent to $\frac{5}{4}$?

$\frac{5 \times 8}{4 \times 8}$

$\frac{8 \times 5}{8 \div 4}$

$\frac{5 + 8}{4 + 8}$

$\frac{8 - 5}{8 - 4}$

Use the expression you chose to find a fraction equivalent to $\frac{5}{4}$.

$$\frac{5}{4} = \frac{\boxed{}}{\boxed{}}$$

4. Which fractions are equivalent to $\frac{2}{6}$?

Hint: There may be more than one.

$\frac{2}{8}$

$\frac{3}{10}$

$\frac{4}{12}$

$\frac{1}{3}$

5. Which fractions are equivalent to $\frac{3}{12}$?

Hint: There may be more than one.

$\frac{5}{12}$

$\frac{3}{10}$

$\frac{2}{8}$

$\frac{1}{4}$

6. Which fractions are equivalent to $\frac{1}{2}$?

Hint: There may be more than one.

 $\frac{3}{6}$ $\frac{6}{12}$ $\frac{4}{8}$ $\frac{5}{10}$

7. Which fractions are equivalent to $\frac{4}{6}$?

Hint: There may be more than one.

 $\frac{2}{3}$ $\frac{3}{4}$ $\frac{8}{12}$ $\frac{7}{10}$

8. Type the missing number that makes these fractions equal:

$$\frac{1}{3} = \frac{2}{\square}$$

9. Type the missing number that makes these fractions equal:

$$\frac{\square}{8} = \frac{6}{12}$$

10. Type the missing number that makes these fractions equal:

$$\frac{2}{4} = \frac{\square}{6}$$

11. Type the missing number that makes these fractions equal:

$$\frac{4}{8} = \frac{5}{\square}$$

12. Type the missing number that makes these fractions equal:

$$\frac{5}{\square} = \frac{6}{12}$$

13. Type the missing number that makes these fractions equal:

$$\frac{\square}{12} = \frac{6}{8}$$

14. Complete the equivalent fraction.

$$\frac{8}{10} = \frac{\square}{100}$$

15. Complete the equivalent fraction.

$$\frac{3}{10} = \frac{\boxed{}}{100}$$

16. Complete the equivalent fraction.

$$\frac{5}{10} = \frac{\boxed{}}{100}$$

17. Write $\frac{4}{10}$ in lowest terms.

$$\frac{\boxed{}}{\boxed{}}$$

18. Write $\frac{2}{8}$ in lowest terms.

$$\frac{\boxed{}}{\boxed{}}$$

19. Write $\frac{3}{6}$ in lowest terms.

$$\frac{\boxed{}}{\boxed{}}$$

20. Write $\frac{2}{12}$ in lowest terms.

$$\frac{\square}{\square}$$

21. Which fraction is **greater**?

$$\frac{1}{5}$$

$$\frac{1}{2}$$

22. Which fraction is **less**?

$$\frac{7}{8}$$

$$\frac{1}{8}$$

23. Which benchmark is between $\frac{16}{12}$ and $\frac{9}{12}$?

$$\frac{1}{2}$$

$$1$$

24. Which benchmark is between $\frac{5}{6}$ and $\frac{5}{4}$?

25. Which benchmark is between $\frac{12}{8}$ and $\frac{4}{5}$?

Use the benchmark to compare the two fractions.

$$\frac{12}{8} \square \frac{4}{5}$$

26. Which benchmark is between $\frac{1}{4}$ and $\frac{9}{10}$?

Use the benchmark to compare the two fractions.

$$\frac{1}{4} \square \frac{9}{10}$$

27. Which sign makes the statement true?

$$\frac{4}{10} \text{ ? } \frac{2}{3}$$

28. Which sign makes the statement true?

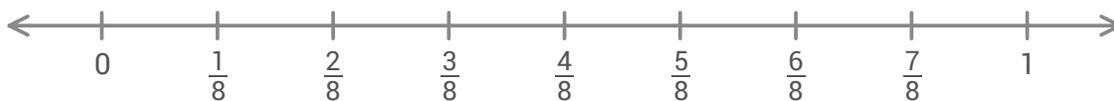
$$\frac{5}{10} \text{ ? } \frac{3}{6}$$

29. Graph $\frac{3}{5}$, $\frac{4}{5}$, and $\frac{1}{5}$ on the number line.



Put the fractions in order from **greatest** to **least**.

30. Graph $\frac{1}{2}$, $\frac{1}{8}$, and $\frac{1}{4}$ on the number line.



Put the fractions in order from **greatest** to **least**.

$\frac{1}{2}$ $\frac{1}{8}$ $\frac{1}{4}$

31. Put these fractions in order from **least** to **greatest**.

$\frac{5}{8}$ $\frac{3}{4}$ $\frac{6}{10}$

32. Put these fractions in order from **least** to **greatest**.

$\frac{7}{10}$ $\frac{11}{12}$ $\frac{2}{3}$

33. Put these fractions in order from **least** to **greatest**.

$\frac{1}{10}$ $\frac{3}{4}$ $\frac{2}{12}$

34. Put these fractions in order from **least** to **greatest**.

$$\frac{1}{2} \quad \frac{10}{12} \quad \frac{3}{4}$$

35. Put these fractions in order from **least** to **greatest**.

$$\frac{7}{8} \quad \frac{4}{12} \quad \frac{1}{2}$$

36. Put these fractions in order from **least** to **greatest**.

$$\frac{4}{6} \quad \frac{2}{5} \quad \frac{1}{10}$$

37. Put these fractions in order from **least** to **greatest**.

$$\frac{2}{3} \quad \frac{1}{2} \quad \frac{3}{8}$$

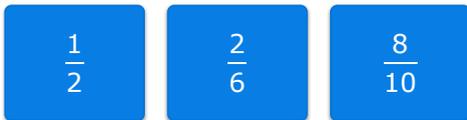
38. Put these fractions in order from **least** to **greatest**.

$$\frac{8}{10} \quad \frac{5}{6} \quad \frac{3}{5}$$

39. Put these fractions in order from **least** to **greatest**.



40. Put these fractions in order from **least** to **greatest**.



41. Add.

$$\frac{1}{2} + \frac{1}{2} = \boxed{}$$

42. Subtract.

$$\frac{3}{4} - \frac{1}{4} = \boxed{}$$

43. Add.

$$\frac{8}{10} + \frac{2}{10} + \frac{9}{10} + \frac{8}{10} = \boxed{}$$

44. Add.

$$\frac{2}{4} + \frac{2}{4} + \frac{3}{4} + \frac{3}{4} = \boxed{}$$

45. Add.

$$\frac{11}{12} + \frac{2}{3} = \boxed{}$$

46. Add.

$$\frac{11}{12} + \frac{5}{6} = \boxed{}$$

47. Add.

$$\frac{1}{6} + \frac{1}{2} = \boxed{}$$

48. Add.

$$\frac{1}{10} + \frac{3}{5} = \boxed{}$$

49. Add.

$$\frac{3}{8} + \frac{1}{4} = \boxed{}$$

50. Subtract.

$$\frac{8}{9} - \frac{2}{3} = \boxed{}$$

51. Subtract.

$$\frac{5}{6} - \frac{1}{2} = \boxed{}$$

52. Subtract.

$$\frac{11}{12} - \frac{1}{3} = \boxed{}$$

53. Subtract.

$$\frac{4}{5} - \frac{1}{10} = \boxed{}$$

54. Subtract.

$$\frac{7}{8} - \frac{3}{4} = \boxed{}$$

55. Subtract.

$$\frac{5}{6} - \frac{5}{12} = \boxed{}$$

56. Subtract.

$$\frac{7}{12} - \frac{1}{4} = \boxed{}$$

57. Subtract.

$$\frac{1}{2} - \frac{3}{8} = \boxed{}$$

58. Subtract.

$$\frac{8}{9} - \frac{2}{3} = \boxed{}$$

59. Subtract.

$$\frac{1}{2} - \frac{5}{12} = \boxed{}$$

60. Subtract.

$$\frac{5}{6} - \frac{2}{3} = \boxed{}$$

61. The McMillan family spends $\frac{1}{4}$ of their budget on groceries and another $\frac{1}{3}$ going out to eat. Altogether, what fraction of their budget does the McMillan family spend on food?

Write your answer as a fraction or as a whole or mixed number.

of the budget

62. Cora's Desserts made a batch of fresh scones with $\frac{1}{2}$ of a pound of butter and $\frac{1}{6}$ of a pound of sugar. How much more butter than sugar was used?

Write your answer as a fraction or as a whole or mixed number.

pounds

63. $\frac{3}{4}$ of the students in the band are in the trumpet section. $\frac{1}{12}$ of the students in the band are in the trombone section. What fraction of the students in the band are in either the trumpet section or the trombone section?

Write your answer as a fraction or as a whole or mixed number.

of the students

64. Of the hats in Cody's Hat Shop, $\frac{1}{2}$ are red and another $\frac{2}{5}$ are blue. What fraction of the hats are either red or blue?

Write your answer as a fraction or as a whole or mixed number.

of the hats

65. At the neighborhood block party, Bobby served $\frac{1}{2}$ of a gallon of hot chocolate and $\frac{1}{5}$ of a gallon of apple cider. How much more hot chocolate than apple cider did Bobby serve?

Write your answer as a fraction or as a whole or mixed number.

gallons

66. Jen made a fruit salad with $\frac{3}{4}$ of a pound of melon and $\frac{2}{3}$ of a pound of berries. How many pounds of fruit did Jen use in all?

Write your answer as a fraction or as a whole or mixed number.

pounds

67. Hoping to be named Salesperson of the Month, Marie called the names from $\frac{1}{2}$ of a page of the phone book last week. This week, she called the people listed on another $\frac{4}{5}$ of a page of the same phone book. How many pages worth of people did Marie call in all?

Write your answer as a fraction or as a whole or mixed number.

pages

68. Logan is knitting a scarf with his grandmother. Yesterday, his grandmother used $\frac{1}{2}$ of a skein of wool and Logan used $\frac{1}{3}$ of a skein. How much more wool did Logan's grandmother use than Logan?

Write your answer as a fraction or as a whole or mixed number.

skeins

69. Anne added $\frac{2}{3}$ of a cup of yellow raisins and $\frac{1}{2}$ of a cup of black raisins to a batch of trail mix. How many cups of raisins did Anne add in all?

Write your answer as a fraction or as a whole or mixed number.

cups

70. Last year, Brendan grew $\frac{9}{10}$ of an inch and his brother grew $\frac{5}{6}$ of an inch. How much more did Brendan grow than his brother?

Write your answer as a fraction or as a whole or mixed number.

inches