CLUSTER III SUMMER READING ASSIGNMENTS, 2012

Entering **6th, 7th, and 8th – graders:** Must complete the language arts, the science, and the social studies assignments.
Entering **7thgraders:** Must read **at least** one additional "free choice" book.
Entering **8th graders:** Must read **at least** two additional "free choice" books.
Of course, your teachers want you to read lots of great books all summer long. Ms. Friedman would like to keep track of how much you read over the summer, even beyond the required reading above. **For all required summer reading, and for all additional reading students choose to do over the summer**, please complete the attached summer reading log and have a parent answer the short questionnaire and sign at the bottom.

Language Arts Assignment

I. Select **any book you'd like to read that is at least 125 pages long**. Be sure your parent approves of your book choice and signs your Bistro Form. You may choose a book from the Sunshine State list (http://myssyra.org), from the list of middle-school recommended books at the website: http://www.justreadflorida.com (Look under "For STUDENTS", and follow the link labeled "for teens, by teens"), or from the recommendation of a trusted friend or family member.

II. Read the book. Get into the plot. Imagine the setting. Picture the characters. Try to figure out what will happen next. Think about what you would do if you were in the story. Enjoy reading the book.

III. Complete all sections of the Book Bistro form. It is recommended that you prepare a rough draft before transferring your summary and reflection to the form. Keep your writing complete but concise (short and to the point). Carefully select two passages that go to the heart of the book's story, theme, character(s), setting, or writing style. Your character description may be written or depicted artistically. For this section of the form only, if you need more room (or wish to use a different medium such as paint, clay, etc.), you may prepare your character description separately. Although the form is short, please note that it will be scored for accuracy, completeness, and thoughtfulness on two different reading benchmarks.

IV. Be prepared to discuss your book in depth during a Book Bistro to be held the second week of school. Please be prepared to bring the book with you to Book Bistro.

Science Assignment

I. Select **one of the books listed below**. Most of these titles are available at the library, and all but the newest titles can be purchased inexpensively, used through Amazon.com. The links below are to Amazon. Before making a selection, explore each book to find out more about it, possibly reading the first pages or chapter before making a choice.

1) Dendy, Leslie and Boring, Mel. **Guinea Pig Scientists: Bold Self-Experimenters in Science and Medicine** http://www.amazon.com/Guinea-Pig-Scientists-Self-Experimenters-Outstanding/dp/0805073167/ ref=sr_1_1?ie=UTF8&s=books&qid=1241699430&sr=1-1

2) Farrell, Jeanette, **Invisible Allies: Microbes That Shape Our Lives** http://www.amazon.com/Invisible-Allies-Microbes-Ribbon-Nonfiction/dp/0374336083

3) Noyes, Deborah. **One Kingdom: Our Lives With Animals** http://www.amazon.com/One-Kingdom-Our-Lives-Animals/dp/0618499148

4) London, Jack. **The Call of the Wild** http://www.amazon.com/The-Call-Wild-Jack-London/dp/1613822081/ref=sr_1_1?ie=UTF8&qid=1334928572&sr=8-1

5) Carson, Rachel. **Silent Spring** http://www.amazon.com/Silent-SpringRachelCarson /dp/0618249060/ref=sr_1_1?ie=UTF8&s=books&qid=1241699516&sr=1-1

II.

Silent Spring is a very tough read and only recommended for advanced readers. Two of these books were on the list last year. Do not choose the book if you already have read it.

Select and complete one of the following assignments:

1) Prepare a Powerpoint presentation
2) Prepare a MovieMaker presentation

III. Also, be prepared to take a short quiz on your book the first week of school.

Social Studies Assignment

I. Select **one of the books listed below.** Please select the book for your grade level, unless you have already read that book, in which case you may choose from the other two:

- **Among the Hidden** by Margaret Peterson Haddix (for 6th-graders and Mr. Demyan's current homeroom)
- **The Giver** by Lois Lowry (recommended for 7th-graders)
- **Animal Farm** by George Orwell (recommended for 8th-graders)

II. Select and complete one of the following assignments.

1.) Visual display (posterboard or otherwise) of how the story flows; how you imagined the characters looked and dressed; the setting, etc.
2.) Oral presentation (description, one or two-scene plays/skits) or other appropriate venues – this can include "audience participation".
3.) Written description/explanation of the storyline/plot, which demonstrates that you have read and understood the book.
4.) Short set of questions listed for peers which you will then answer/explain for your fellow students.

Other possible choices and/or questions about the social studies summer reading project should be directed to – shughes@lecs.org or shughesfl@yahoo.com .

III. Be prepared to hand in your work and/or share your presentation during the first week of school.

A note about summer reading: The required reading assignments should make up only one part of your summer reading. Remember, the more you read, the more you learn! Students who wish to try for a spot on next year's Battle of the Books team should read at least 5 Sunshine State books over the summer. Happy summer reading!

SUMMER, 2012 (June 7- August 19)

Books I Have Read

Title	Author	Genre	H,JR, or C (Holiday, Just Right or Challenge)	Date started:	Date fnished:	Rating (1-10)
Science Choice:						
Social Studies Choice:						
Language Arts Choice:						
Additional Books Read **(at least one more for 7th-graders; at least two more for 8th-graders):**						

PARENTS: PLEASE COMPLETE AND SIGN BELOW

By signing below, I am giving my word that to the best of my knowledge and observations, my child read the books listed above. I have taken time over the summer to ask my child about the books s/he has read, and am satisfied that (even for the books for which no written projects are required) s/he has read and basically understood them. Any concerns I have about my child's reading over the summer are listed below:

Parent comments/questions/concerns about summer reading:

_____

_____

_____

_____

_____ _____

Parent Signature **Date**

Books I Have Read (Continued for the recording of additional, optional summer reading)

Title	**Author**	**Genre**	**H,JR, or C** (Holiday, Just Right or Challenge)	**Date started:**	**Date fnished:**	**Rating (1-10)**

PARENTS: PLEASE COMPLETE AND SIGN BELOW

By signing below, I am giving my word that to the best of my knowledge and observations, my child read the books listed above. I have taken time over the summer to ask my child about the books s/he has read, and am satisfied that (even for the books for which no written projects are required) s/he has read and basically understood them.

_____ _____

Parent Signature **Date**

Differences in Denominators

Example

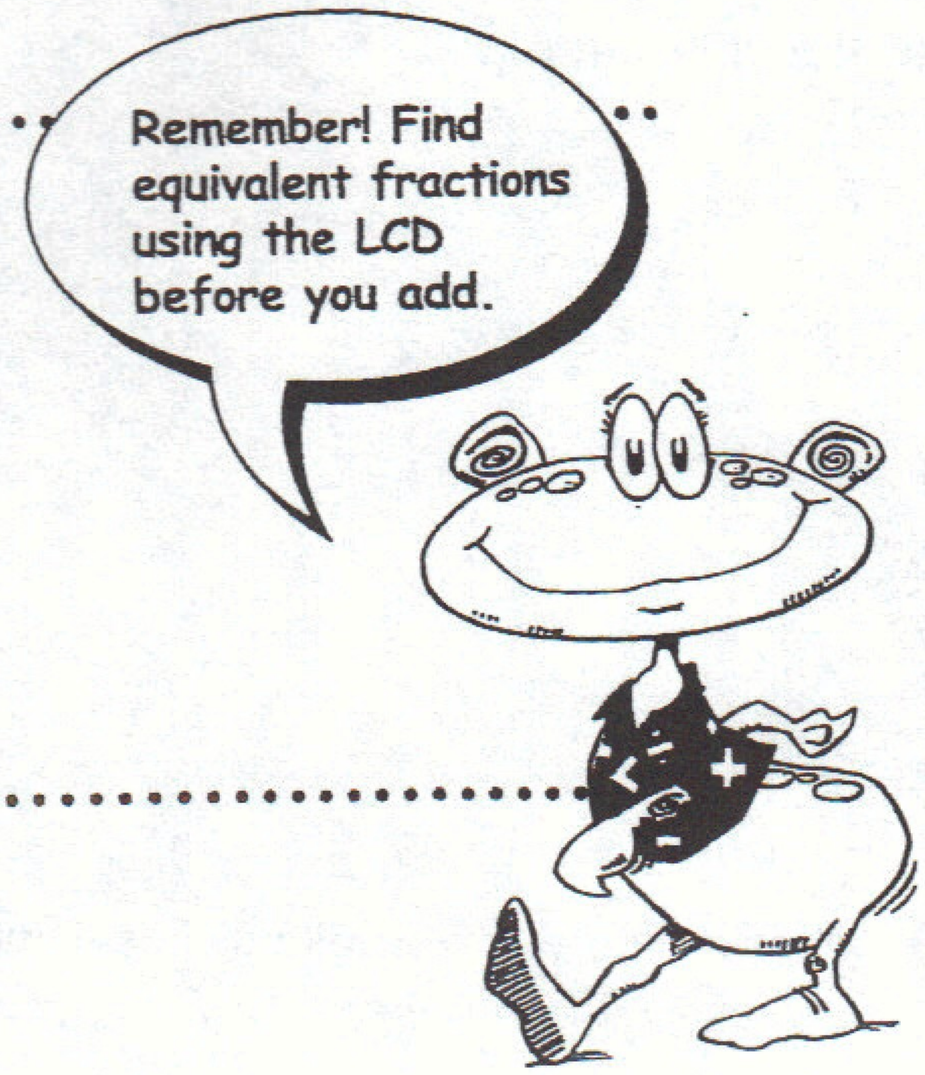
Find the sum.

$\frac{5}{8} + \frac{1}{6} + \frac{3}{4}$

$\frac{5}{8} + \frac{1}{6} + \frac{3}{4} = \frac{15}{24} + \frac{4}{24} + \frac{18}{24} = \frac{37}{24}$

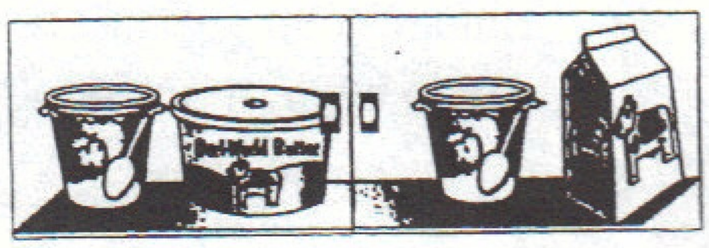
$\frac{37}{24} = 1\frac{13}{24}$

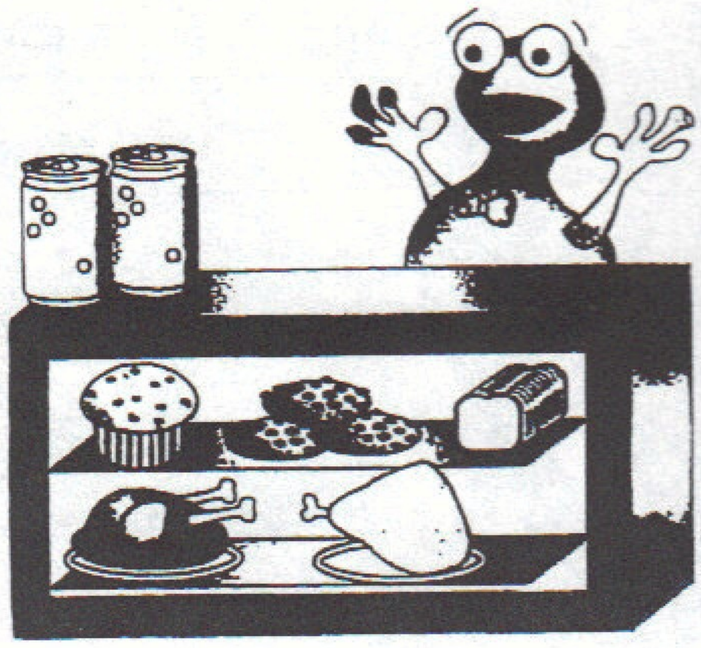
So, $\frac{5}{8} + \frac{1}{6} + \frac{3}{4} = 1\frac{13}{24}$.



Find the sum.

1. $\frac{1}{2} + \frac{3}{4}$
2. $\frac{3}{10} + \frac{1}{2}$
3. $\frac{1}{3} + \frac{1}{9} + \frac{2}{9}$
4. $\frac{1}{4} + \frac{1}{8} + \frac{3}{16}$
5. $\frac{8}{9} + \frac{5}{6}$
6. $\frac{2}{9} + \frac{1}{2}$
7. $\frac{7}{10} + \frac{4}{5} + \frac{1}{2}$
8. $\frac{2}{3} + \frac{1}{4} + \frac{5}{12}$
9. $\frac{3}{4} + \frac{7}{12} + \frac{1}{6}$
10. $\frac{5}{6} + \frac{1}{2} + \frac{4}{9}$





11. Kareem buys cold cuts to make sandwiches. He buys $\frac{3}{4}$ lb of turkey, $\frac{7}{8}$ lb of roast beef, and $\frac{1}{2}$ lb of ham. How many pounds of cold cuts does Kareem buy in all?

12. Kareem buys $\frac{5}{8}$ lb of cheddar cheese and $\frac{3}{4}$ lb of Swiss cheese. How many pounds of cheese does Kareem buy?

Follow the Leader

Example

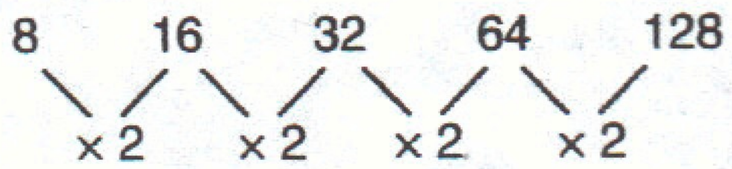
Find the next term in the sequence.

8 16 32 64

- Find the operation that connects each number to the previous number.
- Extend the sequence using that operation.

So, the next number in the sequence is **128**.

multiplication by 2



Find the next term in the sequence.

1. 12 17 22 27
2. 49 41 33 25
3. 160 80 40 20
4. 1 3 9 27
5. 97 101 105 109
6. 1 2 4 8
7. 80 40 20 10
8. 3 12 21 30
9. 101 92 83 74
10. 2 8 32 128

11. The school auditorium has 3 sections. In each section, the first row has 9 seats, the second 13, the third 17, and so on. If the pattern continues, how many seats are there in the fifth row?

12. If there are 8 rows of seats, how many seats are there in each section?

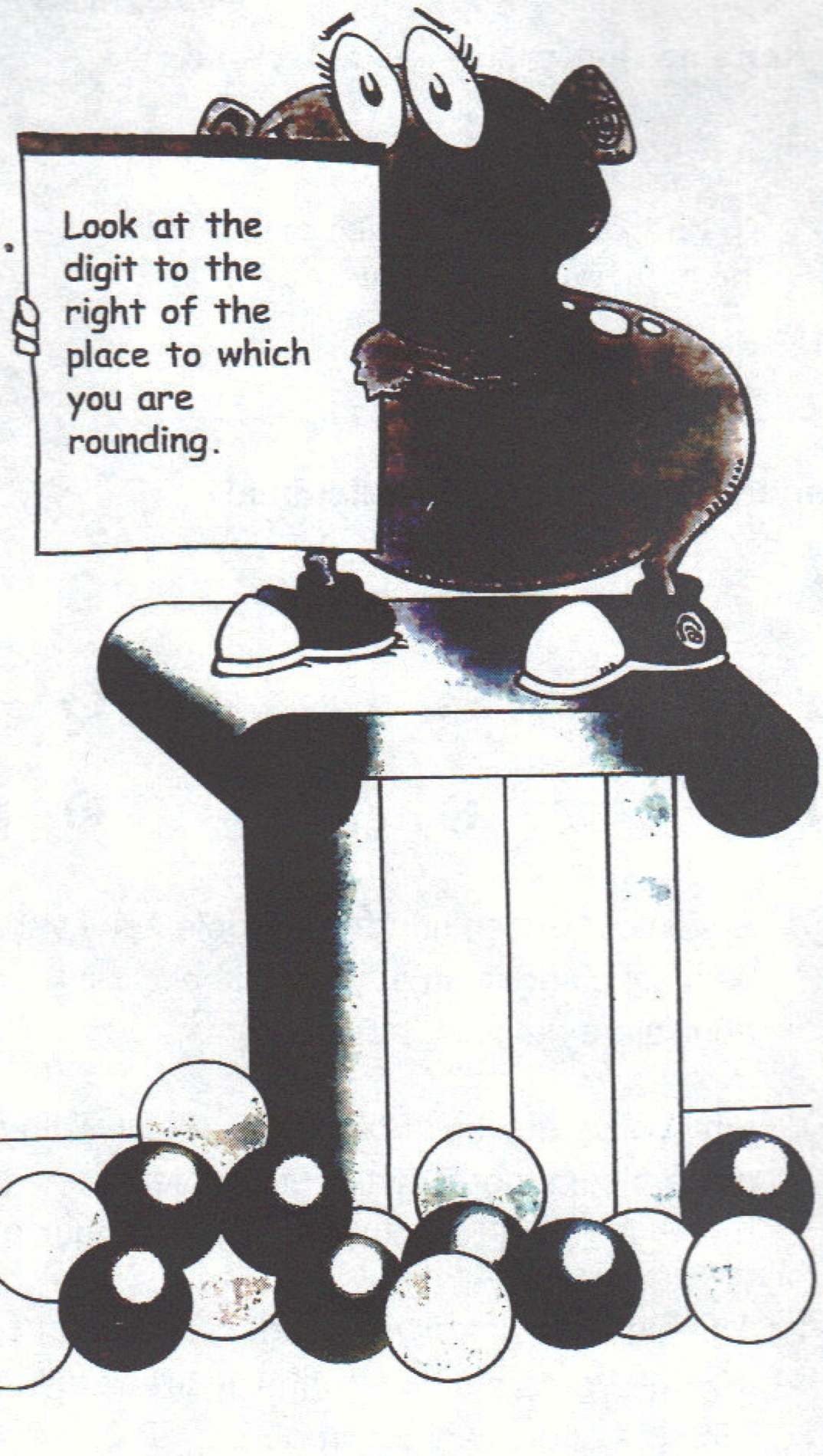
Round Points

Example

Round to the nearest tenth and hundredth.

5.382 nearest tenth: **5.4**

5.382 nearest hundredth: **5.38**



Round to the nearest tenth.

1. 7.256
2. 57.963
3. 8.44608
4. 36.847
5. 72.57
6. 8.512

Round to the nearest hundredth.

7. 48.4629
8. 7.262
9. 36.8473
10. 57.957
11. 48.469
12. 8.5076

Fractions as Decimals

Example

Rename the fraction as a decimal.

$\frac{1}{4}$

To find an equivalent decimal, divide the numerator by the denominator.

So, $\frac{1}{4} = 0.25$.

$$\frac{1}{4} = 4\overline{)1.00}$$

$$\begin{array}{r} 0.25 \\ 4\overline{)1.00} \\ \underline{8} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

Rename the fraction as a decimal.

1. $\frac{5}{8}$
2. $\frac{17}{500}$
3. $\frac{1}{4}$
4. $\frac{4}{5}$
5. $\frac{3}{8}$
6. $\frac{7}{1000}$
7. $\frac{1}{40}$
8. $\frac{34}{500}$
9. $\frac{2}{5}$

10. Seven out of one hundred people surveyed have been involved in an automobile accident. Find the equivalent decimal.

11. Fifty police officers took part in a poll. Thirty-four of the officers said that they ticketed at least one person last month for a traffic violation. Find the equivalent decimal.

12. The highway patrol uses radar. The radar shows that $\frac{17}{1000}$ of the cars on the highway break the speed limit. Find the equivalent decimal.

REDUCING FRACTIONS TO LOWEST TERMS

Reduce each fraction to lowest terms.

1. $\frac{2}{8} =$ ___

2. $\frac{4}{12} =$ ___

3. $\frac{5}{25} =$ ___

4. $\frac{6}{12} =$ ___

5. $\frac{8}{10} =$ ___

6. $\frac{9}{12} =$ ___

7. $\frac{2}{7} =$ ___

8. $\frac{6}{15} =$ ___

9. $\frac{3}{9} =$ ___

10. $\frac{12}{24} =$ ___

11. $\frac{6}{18} =$ ___

12. $\frac{7}{21} =$ ___

13. $\frac{6}{10} =$ ___

14. $\frac{12}{18} =$ ___

15. $\frac{2}{10} =$ ___

16. $\frac{7}{12} =$ ___

17. $\frac{9}{18} =$ ___

18. $\frac{7}{14} =$ ___

19. $\frac{5}{10} =$ ___

20. $\frac{8}{18} =$ ___

21. $\frac{2}{10} =$ ___

22. $\frac{2}{4} =$ ___

23. $\frac{5}{15} =$ ___

24. $\frac{18}{18} =$ ___

It's Improper!

Example

Rename the improper fraction as a mixed number.

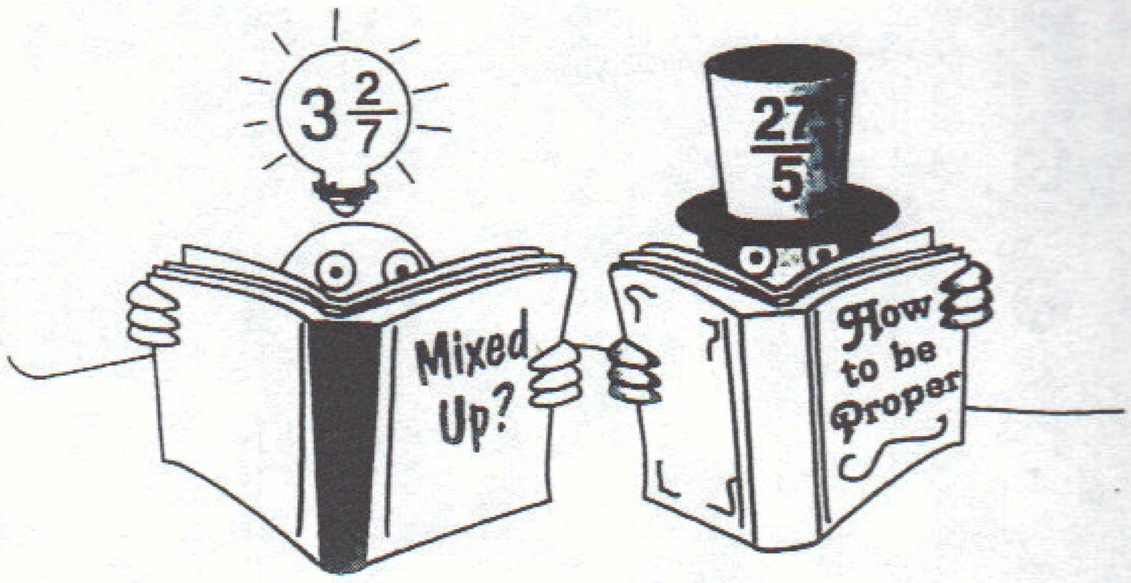
$\frac{50}{6}$

$\frac{50}{6} = 6\overline{)50}\ \begin{matrix}8\ \text{R2}\end{matrix}$ $= 8\frac{2}{6} = 8\frac{1}{3}$

So, $\frac{50}{6} = \mathbf{8\frac{1}{3}}$.

Rename the improper fraction as a mixed number.

1. $\frac{35}{4}$
2. $\frac{38}{9}$
3. $\frac{31}{6}$
4. $\frac{9}{2}$
5. $\frac{28}{8}$
6. $\frac{19}{5}$
7. $\frac{50}{12}$
8. $\frac{62}{18}$
9. $\frac{58}{8}$
10. $\frac{14}{5}$
11. $\frac{39}{4}$
12. $\frac{57}{8}$



Stir Up the Mix

Example

Rename the mixed number as an improper fraction.

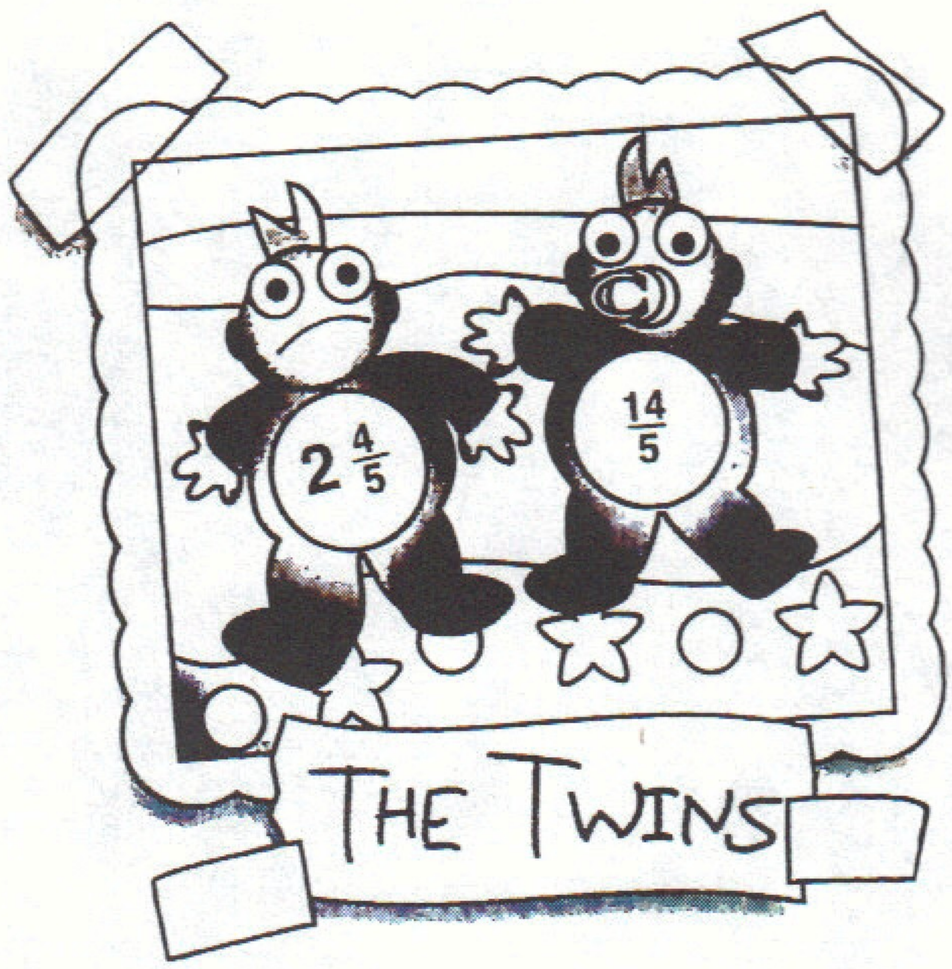
$2\frac{4}{5}$

- Multiply the whole number by the denominator. $2\frac{4}{5} \longrightarrow 5 \times 2 = 10$
- Add the numerator to the product. $10 + 4 = 14$
- Write the sum over the same denominator. $\frac{14}{5}$

So, $2\frac{4}{5} = \mathbf{\frac{14}{5}}$.

Rename the mixed number as an improper fraction.

1. $2\frac{11}{12}$
2. $4\frac{5}{9}$
3. $3\frac{1}{16}$
4. $6\frac{3}{7}$
5. $4\frac{3}{5}$
6. $8\frac{1}{6}$
7. $3\frac{3}{5}$
8. $7\frac{3}{7}$
9. $3\frac{7}{9}$
10. $2\frac{13}{16}$
11. $1\frac{11}{12}$
12. $8\frac{5}{6}$



SUBTRACTING FRACTIONS AND MIXED NUMBERS 50

Subtract and write each answer in simplest form.

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

2. $4\frac{7}{8} - 1\frac{3}{8}$

3. $3\frac{9}{11} - 1\frac{5}{11}$

4. $7\frac{9}{10} - 5\frac{6}{9}$

5. $8 - 5\frac{7}{8}$

6. $12 - 6\frac{5}{9}$

7. $10 - 7\frac{7}{12}$

8. $25 - 16\frac{3}{10}$

9. $\frac{2}{3} - \frac{1}{4}$

10. $\frac{1}{4} - \frac{1}{8}$

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

12. $\frac{7}{8} - \frac{2}{5}$

13. $2\frac{5}{6} - 1\frac{1}{4}$

14. $3\frac{7}{8} - 1\frac{1}{3}$

15. $9\frac{3}{4} - 8\frac{1}{4}$

16. $16\frac{2}{3} - 1\frac{3}{5}$

17. $4\frac{9}{10} - 2\frac{1}{5}$

18. $12\frac{5}{9} - 11\frac{1}{2}$

19. $3\frac{7}{8} - 2\frac{1}{3}$

20. $8\frac{7}{10} - 5\frac{2}{5}$

21. $12\frac{5}{6} - 8\frac{1}{4}$

22. $3\frac{3}{5} - 1\frac{1}{3}$

23. $8\frac{1}{5} - 4\frac{2}{3}$

24. $11\frac{5}{10} - 6\frac{2}{7}$

Vincent picked $23\frac{3}{16}$ pounds of almonds and $15\frac{7}{16}$ pounds of pecans.

25. How many pounds of nuts did he pick?

_____

26. How many more pounds of almonds than pecans did he pick?

_____

ADDING MIXED NUMBERS HAVING DIFFERENT DENOMINATORS

Add and write the sum as a mixed number in simplest form.

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

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

3. $3\frac{2}{3} + 5\frac{1}{4}$

4. $6\frac{5}{8} + 3\frac{1}{3}$

5. $4\frac{2}{3} + 3\frac{1}{5}$

6. $5\frac{1}{8} + 3\frac{2}{3}$

7. $5\frac{7}{8} + 2\frac{1}{3}$

8. $3\frac{3}{10} + 5\frac{1}{2}$

9. $4\frac{2}{7} + 5\frac{2}{5}$

10. $7\frac{1}{2} + \frac{5}{9}$

11. $\frac{3}{5} + 4\frac{7}{8}$

12. $1\frac{1}{10} + 2\frac{1}{3}$

13. $\frac{1}{4} + 1\frac{1}{2} + 2\frac{1}{8}$

14. $3\frac{1}{3} + 4\frac{3}{8} + 5\frac{1}{4}$

15. $1\frac{2}{3} + 2\frac{5}{6} + \frac{1}{9}$

16. $4\frac{7}{8} + 1\frac{1}{3} + 2\frac{3}{4}$

17. $1\frac{3}{4} + 4\frac{2}{5} + 3\frac{1}{3}$

18. $5\frac{5}{12} + 6\frac{1}{2} + 8\frac{2}{3}$

19. $2\frac{1}{5} + 3\frac{1}{5} + 9\frac{2}{3}$

20. $4\frac{1}{2} + 3\frac{2}{5} + 8\frac{2}{3}$

The football team practiced $2\frac{1}{2}$ hours Tuesday, $3\frac{1}{4}$ hours Wednesday, $3\frac{1}{6}$ hours Thursday, and $3\frac{1}{12}$ hours Friday.

21. Find the total hours of practice Tuesday and Wednesday.

_____

22. Find the total hours of practice Wednesday and Thursday.

_____

23. Find the total hours of practice Tuesday and Friday.

_____

24. Altogether, how many hours did the football team practice during the four days?

_____

Which One Do You Flip?

Example

Find the quotient.

$\frac{3}{4} \div \frac{5}{8}$

reciprocals

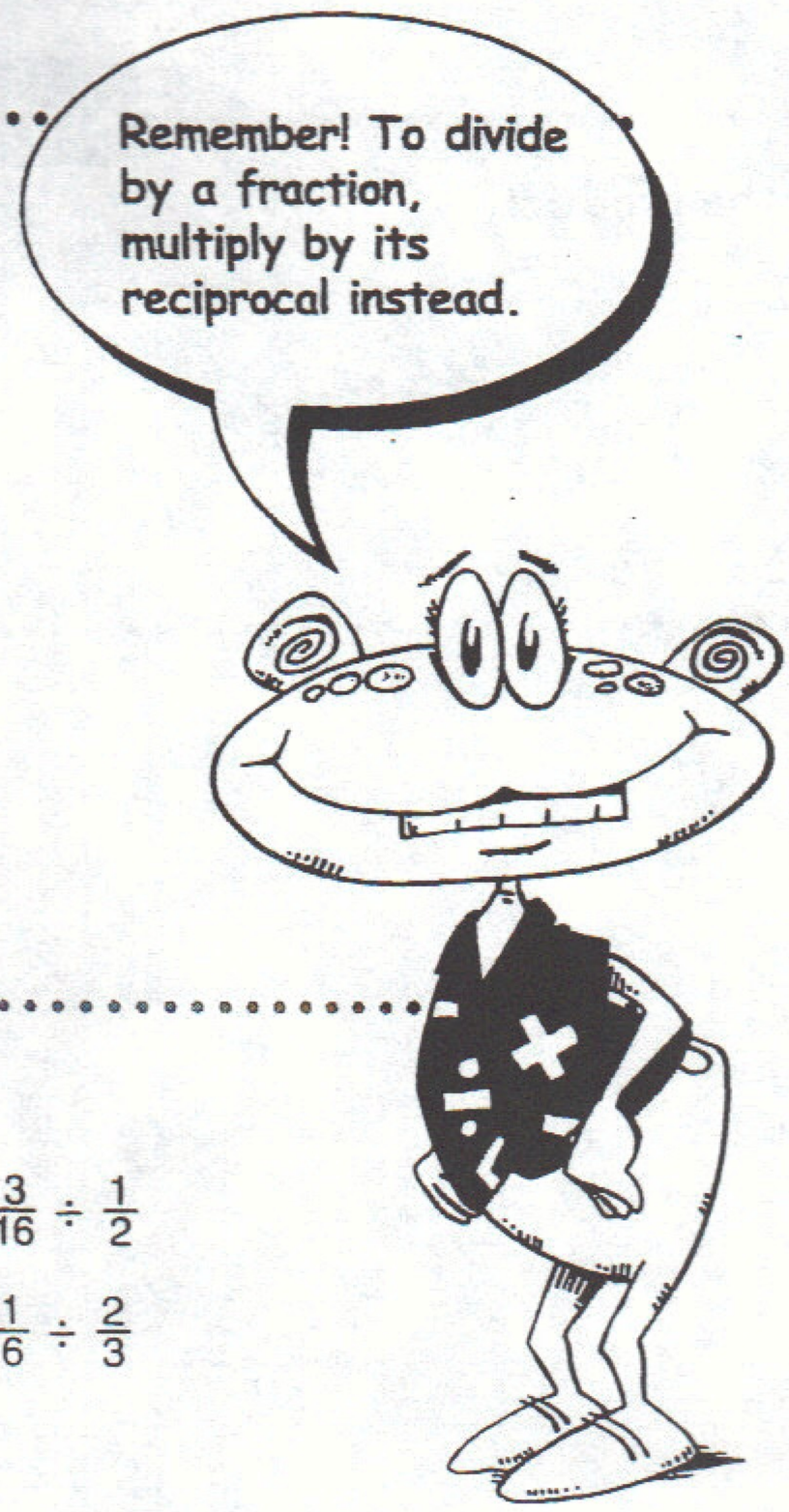
$$\frac{3}{4} \div \frac{5}{8} = \frac{3}{4} \times \frac{8}{5}$$

$$= \frac{3}{\cancel{4}_1} \times \frac{\cancel{8}^2}{5}$$

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

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

So, $\frac{3}{4} \div \frac{5}{8} = 1\frac{1}{5}$.



Find the quotient.

1. $\frac{2}{3} \div \frac{1}{4}$
2. $\frac{3}{8} \div \frac{9}{16}$
3. $\frac{3}{16} \div \frac{1}{2}$
4. $\frac{5}{12} \div \frac{2}{3}$
5. $\frac{7}{8} \div \frac{1}{8}$
6. $\frac{1}{6} \div \frac{2}{3}$
7. $\frac{5}{8} \div \frac{5}{12}$
8. $\frac{9}{16} \div \frac{3}{4}$
9. $\frac{1}{2} \div \frac{2}{5}$
10. $\frac{8}{15} \div \frac{2}{3}$
11. John has a piece of wood that is $\frac{3}{4}$ ft long. He cuts it into pieces that are $\frac{1}{8}$ ft long. How many pieces does he have?
12. Janna has a piece of wood that is $\frac{2}{3}$ yd long. She cuts it into pieces that are $\frac{2}{9}$ yd long. How many pieces does she have?

Simplify It!

Example

Here's a shortcut for multiplying fractions. Divide the numerator and the denominator by a common factor. Then multiply.

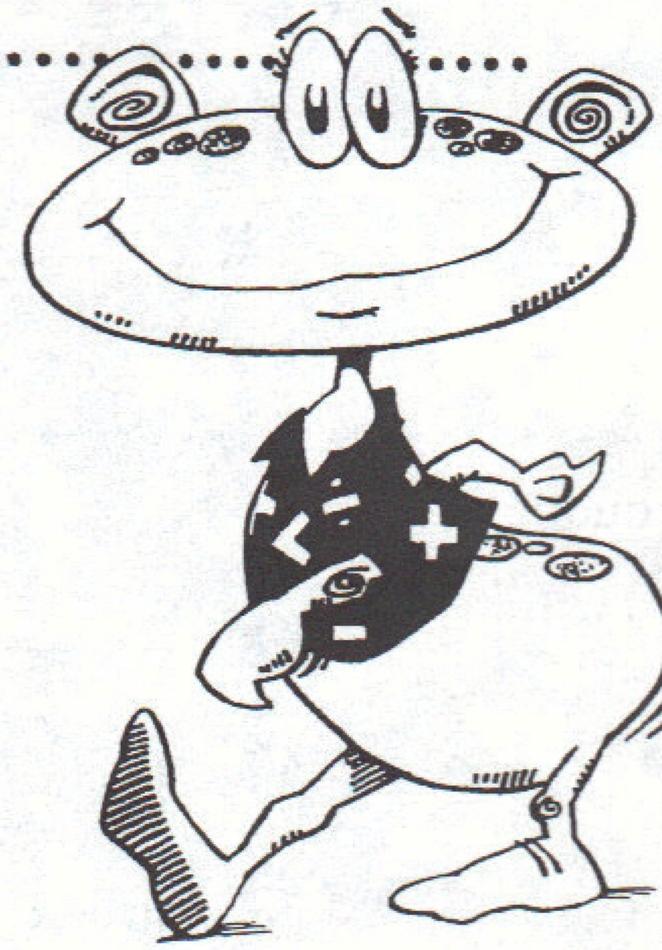
Find the product.

$\frac{2}{3} \times \frac{9}{10}$

$$\frac{2}{\cancel{3}_{1}} \times \frac{\cancel{9}^{3}}{10} = \frac{6}{10} = \frac{3}{5}$$

So, $\frac{2}{3} \times \frac{9}{10} = \mathbf{\frac{3}{5}}$.

Find the product.



1. $\frac{5}{9} \times \frac{3}{8}$
2. $\frac{4}{5} \times \frac{7}{8}$
3. $\frac{8}{15} \times \frac{3}{4}$
4. $\frac{2}{3} \times \frac{9}{10}$
5. $\frac{3}{4} \times \frac{5}{9}$
6. $\frac{5}{8} \times \frac{7}{10}$
7. $\frac{7}{8} \times \frac{2}{5}$
8. $\frac{5}{6} \times \frac{9}{10}$
9. $\frac{3}{7} \times \frac{7}{8}$
10. $\frac{4}{9} \times \frac{3}{8}$

11. A farmer plants $\frac{3}{4}$ of his land, and leaves $\frac{1}{4}$ of his land unplanted. On $\frac{4}{9}$ of the land that the farmer plants, he grows beans. What fraction of the farmer's land is used for growing beans?

12. A farmer wants to use $\frac{5}{8}$ of his land and leave $\frac{3}{8}$ unplanted. He plants apple trees on $\frac{3}{8}$ of the planted land. What fraction of the farmer's land is used for apple trees?

Denominator Differences

Find the difference.

1. $\frac{5}{8} - \frac{1}{4}$

2. $\frac{8}{9} - \frac{2}{3}$

3. $\frac{12}{16} - \frac{5}{8}$

4. $\frac{7}{9} - \frac{4}{6}$

5. $\frac{2}{5} - \frac{1}{15}$

6. $\frac{4}{5} - \frac{3}{10}$

7. $\frac{7}{12} - \frac{1}{3}$

8. $\frac{1}{4} - \frac{1}{12}$

9. $\frac{2}{3} - \frac{1}{4}$

10. $\frac{11}{12} - \frac{1}{4}$

11. José swims $\frac{7}{10}$ mi. Sheila swims $\frac{2}{5}$ mi. How many more miles does José swim than Sheila?

12. Sam swims $\frac{3}{4}$ mi. Karen swims $\frac{5}{6}$ mi. How many more miles does Karen swim than Sam?