



OUR LADY OF VICTORY SCHOOL

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6TH, 7TH & 8TH SUMMER READING ASSIGNMENT

INCOMING 6TH, 7TH & 8TH grade students have two books assigned to read during the summer. They may choose any two books from the attached *Jr. High Recommended Reading List*. Students are expected to complete a "Story Map" and "Book Critique" on their first book and one of the following on their second book:

- **Book Report Cover:** Create an original book jacket for the book you read. You must include a brief summary of the book (in your own words), a picture that represents a scene or them of the book, a list of characters (minimum three) with their important traits, and a quote from the book (one you think is interesting or is something that tells about the book in some way). Note: A book jacket is like a new cover for the book. All work should be original and not just a copy of the cover. *Be creative, follow all directions, and have fun!*
- **Book Report Collage:** On your own paper or poster, assemble a collection of ten or more pictures that relate significantly to this book. These pictures may be drawn, cut from magazines, computer generated, etc. Arrange your pictures in an interesting manner, creating a collage. In addition, attach a separate piece of paper listing each picture and tell why they are important to the story. Write a short, personal response to the book you read. Your response should include why you chose to read this book, if you liked/disliked this book, would you recommend this book to someone to read, why or why not.
- **Written Book Report:** Attaches is a "Storyboard" to help in completing a written book report. The graphic organizer is used to sequence and summarize the main points of the story. If you choose to complete the written book report, you may use this template or work on separate paper. The report maybe hand written or typed. *Paragraph structure, grammar, and spelling count!*

You only have to complete one of the above items for your second book!

In summary, you will be reading two separate books, of your choice, from the recommended reading list (attached). For the first book, complete the "Story Map" and "Book Critique." For the second book, choose one of the three bulleted items above. *Both assignments are due the first week school resumes!*

Reading is an integral part of your child's education and development. I encourage you to have your child read a minimum of 30 minutes a day. This promotes reading comprehension and vocabulary development. Students may read the newspaper, magazines, short stories, and any type of books. The public library is open during the summer – *books do not need to be purchased.*

If you have any questions regarding the summer reading assignment, please contact me at Bouchard@fresnoolv.org or the office during their summer hours. Have a great summer!

God Bless,
Mrs. Bouchard

JUNIOR HIGH SCHOOL SUGGESTED READING

Alcott, L.M	Little Men
	Little Women
Armstrong, W.	Sounder
Buck, Pearl S.	The Big Wave
Byars, Betsy	The Summer of the Swans
	The House of Wings
Choi, Sook Nyul	Echoes of the White Giraffe
Couriander, Harold	Cowtail Switch
Dahl, Roald	Willy Wonka
DeAngell, Marguerite	Door in the Wall
Defoe, D.	Robinson Carusoe
DePaolo, Tomie	Series of Religious Stories
Dickens, Charles	Christmas Carol
Doherty, Paul	King Arthur
Doyle, Arthur C.	Adventures of Sherlock Holmes
Drucker, Olga	Kinder Transport
Forbes, Esther	Johnny Tremain
Frank, Anne	Diary of a Young Girl
George, Jean	Julie of the Wolves
	My Side of the Mountain
Gipson, Fred	Old Yeller
Grahame, K.	The Wind in the Willows
Gunther, J.	Death Be Not Proud
Herriot, J.	All Creatures Great and Small
Hinton, S.E.	The Outsiders
	Tex
	That Was this, This Is Now
Holman, Selice	Slake's Limbo
Hunt, Irene	Across Five Aprils
Juster, Norton	The Phantom Tollbooth
James, L & Collier, Chris	My Brother Sam is Dead
Jarnow, Jill	One of the Boys
Kerr, Judith	When Hitler Stole Pink Rabbit
Keyes, Daniel	Flowers for Algernon
L'Engle, Madeleine	Wrinkle in Time
Lewis, C.S.	Chronicles of Narnia
London, Jack	The Call of the Wild
	The Sea Wolf
	White Fang
Lowry, Lois	The Giver
McCullers, C.	The Hear is a Lonely Hunter
Montgomery, L.M.	Anne of Green Gables
Meyers, Walter Dean	Outside Shot
Naylor, Phyllis	Shiloh

O'Dell, Scott	Island of the Blue Dolphins
	The Black Pearl
Rawlings, Marjorie Kinnan	The Yearling
Rawls, Wilson	Where the Red Fern Grows
Reiss, Johanna	The Upstairs Room
Schaefer, Jack	Shane
Seldon, George	Cricket in Time Square
Snyder, Zilpha	Libby on Wednesday
Sperry, Armstrong	Call it Courage
Stevenson, Robert Louis	Kidnapped
	Treasure Island
Taylor, Mildred	Roll of Thunder Hear my Cry
Thomas, Jane	Courage at Indian Deep
Twain, Mark	Huck Finn
	Tom Sawyer
Verne, J	Twenty Thousand Leagues Under the Sea
Voight, Cynthia	Building Blocks
	Dacey's Song
Wells, H.G.	The Time Machine
White, E.B.	Charlotte's Web
Wilder, T.	The Bridge of San Luis Rey
Zindel, P	The Pigman

Name: _____ Class: _____

Name of Book: _____ Author: _____

Story Map

Follow the people, places and events in the story.

Setting

Time

Place

Characters

Protagonist (the main character)

Antagonist (the person or force opposing the protagonist)

Conflict

Rising Action (list three events that build suspense)

1

2

3

Climax

Explain the climax. The climax is the moment before we know the answers to the questions the conflict has created. It is the peak of suspense.

Name:

Book Critique

1. What is your overall evaluation of this book?

____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

2. Why do you think we read this book?

3. How would you rate this book in the following areas?

Action ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

Originality ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

Interest ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

**Character
Development** ____ Poor ____ Fair ____ Good ____ Very Good ____ Excellent

4. Elaborate on one topic in question 3. Why do you feel this way?

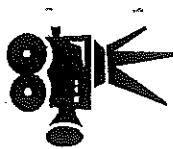
5. Describe how this book could be applied to your life. Describe a part of the book you identified with.

6. Detail the strengths/weaknesses of this book.
Strengths:

Weaknesses:



Storyboard



Name(s): _____ Date: _____ Period: _____

Storyboard panel 1: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 2: A set of four horizontal lines for writing.

Storyboard panel 3: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 4: A set of four horizontal lines for writing.

Storyboard panel 5: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 6: A set of four horizontal lines for writing.

Storyboard panel 7: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 8: A set of four horizontal lines for writing.

Storyboard panel 9: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 10: A set of four horizontal lines for writing.

Storyboard panel 11: A large empty rectangular box with a small oval in the bottom-left corner.

Storyboard panel 12: A set of four horizontal lines for writing.

Summer Math Packet

6th Grade

Name _____ Date _____

Compare, Order, and Round Decimals

Compare. Write $>$, $<$, or $=$ for each \bigcirc .

1. $0.24 \bigcirc 0.18$ 2. $0.45 \bigcirc 0.450$ 3. $0.702 \bigcirc 0.701$ 4. $0.063 \bigcirc 0.63$
 5. $3.682 \bigcirc 3.679$ 6. $42 \bigcirc 41.99$ 7. $4.926 \bigcirc 5.1$ 8. $8.001 \bigcirc 8.1$

Order the numbers from greatest to least.

9. 5.63; 0.563; 5 10. 0.21; 21; 0.2 11. 38.41; 3.842; 3.843

Round to the place of the underlined digit.

12. 3.099 _____ 13. 0.268 _____ 14. 6.253 _____ 15. 9.972 _____

Round each number.

16. 6.027 to the nearest hundredth _____
 17. 5.071 to the nearest tenth _____

Algebra • Properties Compare. Write $>$, $<$, or $=$ for each \bigcirc , given $a = 0.556$, $b = 0.56$, $c = 0.056$, $d = 0.1$

18. $a \bigcirc b$ 19. $c \bigcirc d$ 20. $b \bigcirc c$ 21. $d \bigcirc a$

Find the missing digit that will make the inequality true.

22. $0.45 > 0.\square 9$ 23. $0.\square 93 < 0.636$ 24. $4.238 > 4.23\square$

25. Which decimal is greater than 17.483?

- A 17.099 C 17.438
 B 17.384 D 17.504

26. On Monday Oscar's kitten weighed 2.567 pounds. On Friday he weighed 2.561 pounds. On Sunday he weighed 2.57 pounds. When did he weigh the most?

Add and Subtract Greater Numbers

Add or subtract. ~~Tell which method you used.~~

- | | | | |
|--|---|--|--|
| 1. $\begin{array}{r} 785,928 \\ +216,904 \\ \hline \end{array}$ | 2. $\begin{array}{r} 862,094 \\ - 74,198 \\ \hline \end{array}$ | 3. $\begin{array}{r} 4,710,008 \\ +2,333,456 \\ \hline \end{array}$ | 4. $\begin{array}{r} 301,776 \\ -200,000 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 9,663,281 \\ -7,600,000 \\ \hline \end{array}$ | 6. $\begin{array}{r} 432,986 \\ - 66,454 \\ \hline \end{array}$ | 7. $\begin{array}{r} 2,010,838 \\ + 500,010 \\ \hline \end{array}$ | 8. $\begin{array}{r} 198,519 \\ + 67,834 \\ \hline \end{array}$ |
| 9. $\begin{array}{r} 6,000,000 \\ -3,560,714 \\ \hline \end{array}$ | 10. $\begin{array}{r} 990,374 \\ +613,694 \\ \hline \end{array}$ | 11. $\begin{array}{r} 8,888,123 \\ + 24,002 \\ \hline \end{array}$ | 12. $\begin{array}{r} 1,112,738 \\ -1,054,628 \\ \hline \end{array}$ |
| 13. $\begin{array}{r} 3,456,654 \\ -2,567,765 \\ \hline \end{array}$ | 14. $\begin{array}{r} 8,608,086 \\ - 543,892 \\ \hline \end{array}$ | 15. $\begin{array}{r} 5,491,207 \\ +1,090,000 \\ \hline \end{array}$ | 16. $\begin{array}{r} 32,087,111 \\ + 4,922,843 \\ \hline \end{array}$ |
| 17. $265,000 + 140,000$ | 18. $100,000 - 24,700$ | 19. $2,864,700 - 2,643,200$ | |
| _____ | _____ | _____ | |
| 20. $7,778,673 - 4,211,002$ | 21. $2,880,199 + 3,857,735$ | 22. $14,832,645 - 3,293,001$ | |
| _____ | _____ | _____ | |



Test Prep

23. City A has a population of 3,224,678. City B is home to 113,870 people. City C has a 738,645 residents. How many more people live in City A than in City B and City C combined?
- A 3,110,808 C 2,372,163
B 2,486,033 D 2,129,653
24. The Sun is an average distance of 92,960,000 miles away from the Earth. The Moon is an average distance of 238,900 miles away from the Earth. If the Moon is directly between the Earth and the Sun, what is the average distance from the Moon to the Sun?
- _____

Name _____

Date _____

Add Decimals

Add. Estimate to check that your answer is reasonable.

Example

$$\begin{array}{r} \$4.56 \\ + 6.32 \\ \hline \$10.88 \end{array}$$

1. $\begin{array}{r} 7.59 \\ + 2.09 \\ \hline \end{array}$

2. $\begin{array}{r} 4.88 \\ + 6.76 \\ \hline \end{array}$

3. $\begin{array}{r} \$7.50 \\ + 3.87 \\ \hline \end{array}$

4. $\begin{array}{r} 9.01 \\ + 3.73 \\ \hline \end{array}$

5. $\begin{array}{r} 25.9 \\ + 34.8 \\ \hline \end{array}$

6. $\begin{array}{r} 157.8 \\ + 30.1 \\ \hline \end{array}$

7. $\begin{array}{r} 245.0 \\ + 8.931 \\ \hline \end{array}$

8. $\begin{array}{r} 57.14 \\ + 3.689 \\ \hline \end{array}$

9. $\begin{array}{r} \$8.55 \\ + 7.49 \\ \hline \end{array}$

10. $\begin{array}{r} 83.041 \\ + 5.226 \\ \hline \end{array}$

11. $\begin{array}{r} 15.8 \\ 46.9 \\ + 145.733 \\ \hline \end{array}$

12. $\begin{array}{r} 635.33 \\ 9.338 \\ + 0.994 \\ \hline \end{array}$

13. $\begin{array}{r} 5.001 \\ 64.893 \\ + 158.6 \\ \hline \end{array}$

14. $\begin{array}{r} 145.2 \\ 452.8 \\ + 68.44 \\ \hline \end{array}$

15. $153.7 + 1.4$

16. $61.108 + 6.22$

17. $49.20 + 5.81 + .854$

18. A relay race consisted of three sections. Team A finished the first section in 124.5 seconds, the second in 165.98 seconds and the third in 89.243 seconds. How much time did it take Team A to run the race?

19. Kyle helped his mom weigh fruit and vegetables at the grocery store. The potatoes weighed 6.42 pounds. The watermelon weighed 15.87 pounds. How much do the potatoes and watermelon weigh together?

Practice 2-5

Name _____

Date _____

Subtract Decimals

Subtract. Add to check your answer.

Example

$$\begin{array}{r} 417 \\ 5.78 \\ -3.82 \\ \hline 1.96 \end{array}$$

1. $\begin{array}{r} 10.42 \\ - 6.01 \\ \hline \end{array}$

2. $\begin{array}{r} \$52.90 \\ - 25.00 \\ \hline \end{array}$

3. $\begin{array}{r} 18.45 \\ - 5.10 \\ \hline \end{array}$

4. $\begin{array}{r} 14.07 \\ - 2.88 \\ \hline \end{array}$

5. $\begin{array}{r} \$19.99 \\ - 12.70 \\ \hline \end{array}$

6. $\begin{array}{r} 84.26 \\ - 76.48 \\ \hline \end{array}$

7. $\begin{array}{r} 17.04 \\ - 5.32 \\ \hline \end{array}$

8. $\begin{array}{r} \$46.00 \\ - 5.00 \\ \hline \end{array}$

9. $\begin{array}{r} 90.82 \\ - 32.74 \\ \hline \end{array}$

10. $\begin{array}{r} 36.53 \\ - 4.52 \\ \hline \end{array}$

11. $\begin{array}{r} \$6.98 \\ - 4.18 \\ \hline \end{array}$

12. $\begin{array}{r} 58.00 \\ - 42.64 \\ \hline \end{array}$

13. $\begin{array}{r} 19.44 \\ - 1.39 \\ \hline \end{array}$

14. $\begin{array}{r} 99.42 \\ - 77.02 \\ \hline \end{array}$

15. $4.45 - 3.29$

16. $17.89 - 6.52$

17. $57.46 - 25.43$

18. The temperature yesterday was 84.6 degrees. Today it was 76.0 degrees. How much cooler is it today than yesterday?

19. Jill earned \$56.42 over the summer. She wants to spend \$16.99 on a new CD. After she buys the CD, how much money will she have left?

Name _____ Date _____

Multiply by Two-Digit Numbers

Example

$$\begin{array}{r} 12 \\ 147 \\ \times 24 \\ \hline 588 \\ +2940 \\ \hline 3,528 \end{array}$$

Multiply. Estimate to check.

1. $\begin{array}{r} 63 \\ \times 74 \\ \hline \end{array}$

2. $\begin{array}{r} 86 \\ \times 51 \\ \hline \end{array}$

3. $\begin{array}{r} 35 \\ \times 49 \\ \hline \end{array}$

4. $\begin{array}{r} \$0.45 \\ \times 37 \\ \hline \end{array}$

5. $\begin{array}{r} \$3.62 \\ \times 28 \\ \hline \end{array}$

6. $\begin{array}{r} 27 \\ \times 81 \\ \hline \end{array}$

7. $\begin{array}{r} 822 \\ \times 48 \\ \hline \end{array}$

8. 0.64×86

9. 853×41

10. 214×73

11. $\$7.15 \times 48$

Problem Solving • Reasoning

12. There are 62 windows on each floor of a skyscraper which is 43 stories tall. How many windows are there altogether?

13. Fran's class went to the zoo. Each of the 26 children in her class paid the \$4.25 admission fee. How much did it cost for the entire class to go to the zoo?

Name _____ Date _____

Customary Units of Weight and Capacity

Complete.

1. $3\text{ T} = \underline{\hspace{2cm}}\text{ lb}$

3. $\underline{\hspace{2cm}}\text{ lb} = 64\text{ oz}$

5. $13,700\text{ lb} = \underline{\hspace{2cm}}\text{ T } \underline{\hspace{2cm}}\text{ lb}$

7. $\underline{\hspace{2cm}}\text{ c} = 16\text{ pt}$

9. $\underline{\hspace{2cm}}\text{ pt} = 48\text{ c}$

2. $\underline{\hspace{2cm}}\text{ qt } \underline{\hspace{2cm}}\text{ pt} = 15\text{ pt}$

4. $\underline{\hspace{2cm}}\text{ lb} = 9\frac{1}{2}\text{ T}$

6. $18\text{ qt} = \underline{\hspace{2cm}}\text{ gal } \underline{\hspace{2cm}}\text{ qt}$

8. $32\text{ pt} = \underline{\hspace{2cm}}\text{ gal}$

Compare. Write $>$, $<$, or $=$ for each \bigcirc .

10. $5\text{ pt } \bigcirc 9\text{ c}$

12. $4\text{ lb } \bigcirc 64\text{ oz}$

14. $36\text{ fl oz } \bigcirc 4\text{ c } 4\text{ fl oz}$

11. $3\text{ T } 500\text{ lb } \bigcirc 7,000\text{ lb}$

13. $3\text{ gal } 2\text{ qt } \bigcirc 15\text{ qt}$

15. $48\text{ pt } \bigcirc 5\text{ gal } 3\text{ qt}$

Which unit would you use to measure each? Write *oz*, *lb*, *T*, *fl oz*, *c*, *pt*, *qt*, or *gal*.

16. A juice carton holds about 32 _____.

17. A box of paper clips weighs about 3 _____.

18. The capacity of a pitcher is 2 _____.

19. A whale weighs about 2 _____.

Test Prep

20. Lizzie made $1\frac{1}{2}$ gallons of punch for a party. If there are 8 people altogether and each person drinks the same amount, how many cups of punch will each person drink?

A 2 c

C 4 c

B 3 c

D 6 c

21. Zack fills a 3-gallon container with equal amounts of juice and seltzer. How many quarts of juice are there?

One-Digit Divisors

Divide and check.

1. $7 \overline{)641}$

2. $5 \overline{)475}$

3. $4 \overline{)2,979}$

4. $5 \overline{)82,345}$

5. $8 \overline{)73,691}$

6. $7 \overline{)862,715}$

7. $728 \div 6$

8. $568 \div 4$

9. $7,324 \div 2$

10. $23,456 \div 8$

11. $74,114 \div 9$

12. $217,422 \div 4$

Algebra • Equations The division statement $16 \div 5 = 3 \text{ R}1$ can be written as $(5 \times 3) + 1 = 16$. Write and solve a division statement for each equation.

13. $4a + r = 19$

14. $5a + r = 33$

15. $6a + r = 19$

 **Test Prep**

16. Al works in a nursery. He plants 486 seedlings in rows. He plants 9 seedlings in each row. Which answer shows how many rows he plants?

A 34 rows

C 54 rows

B 46 rows

D 62 rows

17. Al plants 335 rose bushes. He plants 8 in each row. How many full rows does he plant? How many rose bushes are in the last row?

Name _____

Date _____

Zeros in the Quotient

Divide.

Example

$$\begin{array}{r}
 250 \text{ R}2 \\
 9 \overline{)2,252} \\
 \underline{18} \\
 45 \\
 \underline{45} \\
 02 \\
 \underline{0} \\
 2
 \end{array}$$

1. $8 \overline{)1,624}$

2. $5 \overline{)2,011}$

3. $4 \overline{)2,413}$

4. $3 \overline{)150}$

5. $9 \overline{)10,620}$

6. $203 \div 4$

7. $18,573 \div 9$

8. $2,100 \div 3$

9. $13,640 \div 8$

10. $1,236 \div 4$

11. $35,562 \div 7$

Problem Solving • Reasoning

12. The top three sellers in the school's fundraiser sold a total of 324 items. The three students each sold an equal number of items. How many items did each of them sell?

13. The school wants to use the fundraiser profits to buy books. They raised a total of \$1,510. Each book costs \$5. How many books can they buy?

Name _____

Date _____

Divide by Two-Digit Numbers

Divide.

<p>Example</p> $\begin{array}{r} 12 \text{ R}32 \\ 45 \overline{)572} \\ \underline{45} \\ 122 \\ \underline{90} \\ 32 \end{array}$
--

1. $23 \overline{)865}$

2. $80 \overline{)576}$

3. $31 \overline{)478}$

4. $26 \overline{)198}$

5. $37 \overline{)255}$

6. $29 \overline{)896}$

7. $56 \overline{)582}$

8. $78 \overline{)210}$

9. $38 \overline{)739}$

10. $12 \overline{)845}$

11. $29 \overline{)529}$

12. $281 \div 17$

13. $927 \div 43$

14. $77 \div 14$

15. $82 \div 41$

Problem Solving • Reasoning

16. There are 368 new books to be distributed evenly to the 23 classrooms in the elementary school. How many books will each classroom get?

17. The students distributing the books carry them on a cart that holds 34 books at a time. How many trips will they need to make to deliver all 368 books?

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Order of Operations

Simplify.

1. $(20 - 2) \div 3$

2. $4 + (8 - 2) \times 5$

3. $6 + (2 \times 6) \div 2^2$

4. $(19 + 2) \div (9 - 2) \times 4$

5. $(3^2 - 6) \times (10 + 5)$

6. $4 + (6 \times 2) - 7$

7. $135 - 3 - (4 \times 12) + 16$

8. $(9 - 5)^2 - (6 - 2) \times 3$

9. $1,634 + (14 \times 2) \div 2^2$

Write $>$, $<$, or $=$ for each \bigcirc .

10. $22 + (16 - 8) \bigcirc (22 + 16) - 8$

11. $32 + (4 \times 2) \bigcirc (32 + 4) \times 2$

12. $(36 \div 4) - 3^2 \bigcirc 16 - (3 \times 4)$

13. $(12 \times 3) + 2^2 \bigcirc (18 \div 3)^2 + 8$

14. $2,578 + (456 - 12) \bigcirc (2,578 + 456) - 12$

15. $(3^2 - 4) \times 8 \bigcirc (18 + 2) + 2^2 \times 2$

Mental Math Use mental math to simplify.

16. $5 + (8 - 2) - 6$ _____

17. $(12 - 2) + (5 + 5) + (6 + 4)$ _____

18. $8 + 18 - (4 \times 2)$ _____

19. $(7 \div 7) \times (8 \div 8) \times (9 \div 9)$ _____

Algebra • Expressions Evaluate the expression, given $x = 3$ and $y = 7$.

20. $(x + y)^2$ _____

21. $(2x + 6y) \div x$ _____


Test Prep

22. Which answer shows the expression $44 + 12 \div 2 - 2^2 \times 2$ correctly simplified using the order of operations?

A 20

C 42

B 24

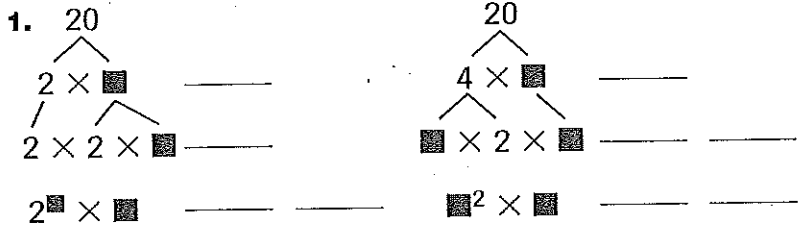
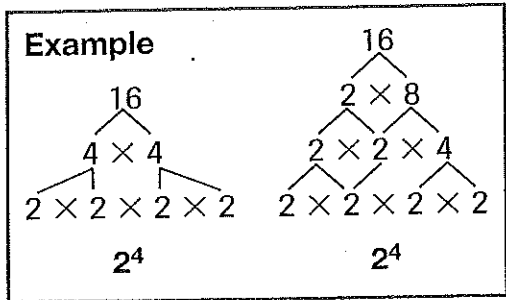
D 48

23. Rewrite the expression $28 - 3 \times 4 + 3^2$. Put in parentheses to show the correct order of operations. Simplify the expression.
- _____

Name _____ Date _____

Prime Factorization

Write the factors that complete each factor tree.
Then use exponents to write the prime factorization.



Write each prime factorization. Use exponents if possible.

2. 18

3. 4

4. 10

5. 24

6. 72

7. 64

8. 75

9. 100

10. 80

Problem Solving • Reasoning

11. What number has a prime factorization of $2^3 \times 3 \times 7$?

12. Name two numbers whose prime factorization includes the numerals 2, 3, and 5. Write the prime factorization.

Name _____

Date _____

Common Factors and Greatest Common Factor

List the factors for each number. Then find the greatest common factor for each pair of numbers.

<p>Example</p> <p>12, 26</p> <p>factors of 12: 1, 2, 3, 4, 6, 12</p> <p>factors of 26: 1, 2, 13, 26</p> <p>common factors: 1, 2</p>
--

1. 16, 42

2. 21, 25

Find the prime factorization of each number. Then find the greatest common factor (GCF) of each pair of numbers.

3. 24, 56

4. 10, 25

5. 16, 42

6. 24, 108

Problem Solving • Reasoning

7. Mrs. Lee has 45 pieces of chalk and 80 crayons in her classroom. What is the greatest number of students she can give chalk and crayons to, if each student must receive the same number of chalk and crayons with nothing left over?

8. There are 50 cupcakes and 160 cookies to be sold at the school bake sale. What is the greatest number of packages of baked items that can be sold, if each package has the same number of cupcakes and the same number of cookies with none left over?

Name _____

Date _____

Common Multiples and Least Common Multiple

Write the first five multiples of each number.

Example

3

3, 6, 9, 12, 15

1. 5

2. 9

3. 13

4. 16

Write the prime factorization of each number.

5. 14

6. 18

7. 30

8. 28

9. 48

Find the LCM of each pair of numbers. Use either method.

10. 15, 18

11. 8, 20

12. 12, 32

13. 18, 45

14. 24, 40

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Problem Solving • Reasoning

15. Aiko's class has music every fourth day and a spelling test every other day. If they had music and spelling on Monday, what is the next day that they will have both music and spelling?

16. Stacey is training for a triathlon. She jogs every third day and swims every fourth day. If she is jogging on Monday, what day of the week will she end up jogging and swimming?

Practice 7-14

Name _____

Date _____

Add Fractions With Unlike Denominators

Add. Write each sum in simplest form.

Example

$$\begin{array}{r} \frac{3}{8} \rightarrow \frac{18}{48} \\ + \frac{1}{6} \rightarrow + \frac{6}{48} \\ \hline \end{array}$$

$$\frac{18}{48} + \frac{6}{48} = \frac{24}{48}$$

$$\frac{24}{48} = \frac{24 \div 24}{48 \div 24} = \frac{1}{2}$$

1. $\frac{3}{7} + \frac{1}{21}$

2. $\frac{1}{15} + \frac{2}{3}$

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

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

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

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

7. $\frac{2}{15} + \frac{1}{6}$

8. $\frac{7}{9} + \frac{2}{3}$

Problem Solving • Reasoning

9. On Wednesday Jim's bean plant was $\frac{1}{2}$ of an inch tall. On Monday, the bean plant was $\frac{5}{6}$ of an inch taller. How tall was the bean plant on Monday?

10. Michelle ate $\frac{1}{6}$ of a pizza and Charles ate $\frac{7}{12}$. How much pizza did they eat altogether?

Name _____

Date _____

Add Mixed Numbers

Write the LCM of each number pair.

Example

12, 15

$$12 = 2 \times 2 \times 3$$

$$15 = 3 \times 5$$

$$\text{LCM} = 2 \times 2 \times 3 \times 5$$

$$\text{LCM} = 60$$

1. 5, 9

2. 6, 9

3. 3, 6

Write each mixed number in simplest form.

4. $2\frac{5}{15}$

5. $6\frac{4}{18}$

6. $2\frac{12}{15}$

Add. Write each sum in simplest form.

7. $3\frac{1}{10}$
 $+ 1\frac{7}{12}$

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

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

Problem Solving • Reasoning

10. Ken measured $3\frac{2}{3}$ feet tall last year. This year he grew $1\frac{1}{2}$ feet. How tall is he?

11. Dan drove $1\frac{1}{4}$ miles to pick up a friend for school and then drove $9\frac{4}{5}$ miles to school. How far did he drive?

Name _____ Date _____

Subtract Fractions with Unlike Denominators

Write the difference in simplest form. Check your work.

Example

$$\begin{array}{r} 5\frac{5}{6} = 5\frac{5}{6} \\ -1\frac{2}{3} = -1\frac{4}{6} \\ \hline 4\frac{1}{6} \end{array}$$

Check: $4\frac{1}{6} + 1\frac{4}{6} = 5\frac{5}{6}$

1.
$$\begin{array}{r} \frac{5}{12} \\ -\frac{1}{6} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 7\frac{2}{9} \\ -3\frac{1}{5} \\ \hline \end{array}$$

3.
$$\begin{array}{r} 9\frac{1}{8} \\ -3 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 8\frac{2}{3} \\ -6\frac{1}{6} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{8}{15} \\ -\frac{1}{5} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 2\frac{5}{6} \\ -1\frac{1}{8} \\ \hline \end{array}$$

7.
$$\begin{array}{r} \frac{9}{10} \\ -\frac{1}{4} \\ \hline \end{array}$$

8.
$$\begin{array}{r} 5\frac{1}{2} \\ -2\frac{1}{6} \\ \hline \end{array}$$

Problem Solving • Reasoning

9. Emma is hiking a $3\frac{7}{10}$ mile trail. She just came up on the $2\frac{1}{2}$ mile marker. How much farther does she need to hike to finish?

10. Jan is baking muffins. The recipe calls for $3\frac{1}{2}$ cups of flour. She only has $2\frac{1}{4}$ cups. How much more does she need?

Name _____

Date _____

Subtract Mixed Numbers

Write each difference in simplest form. Check your work.

Example

$$\begin{array}{r} 5\frac{5}{6} = 5\frac{5}{6} \\ -2\frac{1}{3} = -2\frac{2}{6} \\ \hline 3\frac{3}{6} = 3\frac{1}{2} \end{array}$$

Check: $3\frac{1}{2} + 2\frac{1}{3} =$
 $3\frac{3}{6} + 2\frac{2}{6} = 5\frac{5}{6}$

1. $7\frac{1}{8}$
 $-2\frac{3}{6}$
 \hline

2. $9\frac{1}{6}$
 $-3\frac{5}{7}$
 \hline

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

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

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

6. $7\frac{15}{16}$
 $-2\frac{4}{8}$
 \hline

7. $9\frac{1}{8}$
 $-2\frac{1}{3}$
 \hline

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

Problem Solving • Reasoning

9. Mark walked $\frac{2}{3}$ of a mile and swam $\frac{3}{4}$ of a mile. Did he walk or swim farther? How much farther?

10. Liz practiced the piano $2\frac{1}{2}$ hours last week and $2\frac{1}{3}$ hours this week. Did she practice more hours this week or last week? How much more?

Practice 8-2

Name _____

Date _____

Multiply Fractions

Example

$$\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$$

Multiply. Write each answer in simplest form.

1. $\frac{2}{5} \times \frac{3}{5}$ _____

2. $\frac{1}{8} \times 3$ _____

3. $\frac{1}{6} \times \frac{2}{3}$ _____

4. $\frac{4}{5} \times \frac{1}{2}$ _____

5. $\frac{7}{8} \times \frac{2}{5}$ _____

6. $\frac{4}{9} \times \frac{3}{7}$ _____

7. $\frac{1}{5} \times \frac{8}{9}$ _____

8. $\frac{1}{7} \times \frac{3}{10}$ _____

9. $\frac{1}{2} \times \frac{13}{15}$ _____

10. $\frac{2}{3} \times \frac{18}{20}$ _____

11. $\frac{3}{8} \times \frac{4}{7}$ _____

12. $\frac{3}{10} \times \frac{2}{5}$ _____

13. $\frac{4}{7} \times \frac{1}{4}$ _____

14. $\frac{6}{9} \times \frac{2}{3}$ _____

15. $\frac{5}{6} \times \frac{1}{6}$ _____

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

17. $5 \times \frac{4}{5}$ _____

18. $\frac{8}{9} \times \frac{2}{5}$ _____

19. $\frac{6}{7} \times \frac{7}{8}$ _____

Problem Solving • Reasoning

20. Mary earns extra money baby-sitting. Last week, she baby-sat for 9 hours. If $\frac{2}{3}$ of those hours were on Saturday, how many hours did she baby-sit on Saturday?
- _____

21. Lawrence owns 20 balls. $\frac{4}{5}$ of the balls are larger than a baseball, and $\frac{1}{2}$ of those are soccer balls. How many soccer balls does Lawrence own?
- _____

Name _____ Date _____

Multiply Fractions and Mixed Numbers

Example

$$2\frac{2}{3} \times \frac{2}{5} = \frac{8}{3} \times \frac{2}{5} = \frac{16}{15} = 1\frac{1}{15}$$

Write each product in simplest form.

1. $1\frac{1}{5} \times \frac{3}{4}$ _____

2. $\frac{1}{8} \times 3$ _____

3. $3\frac{1}{6} \times \frac{2}{5}$ _____

4. $\frac{4}{5} \times 2\frac{1}{2}$ _____

5. $1\frac{3}{8} \times \frac{1}{5}$ _____

6. $2\frac{4}{5} \times \frac{3}{7}$ _____

7. $3\frac{1}{4} \times \frac{8}{9}$ _____

8. $\frac{4}{7} \times 2\frac{3}{4}$ _____

9. $1\frac{2}{5} \times \frac{1}{4}$ _____

10. $\frac{1}{6} \times 3\frac{1}{3}$ _____

11. $\frac{5}{9} \times 3\frac{2}{3}$ _____

Compare. Write $>$, $<$, or $=$ for each \bigcirc .

12. $2\frac{2}{3} \times \frac{1}{6} \bigcirc 3\frac{1}{2} \times \frac{1}{4}$

13. $\frac{7}{8} \times 4\frac{1}{6} \bigcirc \frac{3}{11} \times 9\frac{1}{2}$

Problem Solving • Reasoning

14. With her dinner, Susan got a super-size cup holding $2\frac{2}{3}$ cups of milk. She was able to drink $\frac{2}{3}$ of the milk. How much milk did she drink?

15. Walt has a piece of rope which is $10\frac{1}{3}$ ft long. He has to cut it into four equal pieces. How long will each piece be?

Name _____ Date _____

Divide by a Counting Number

Example

$$\frac{4}{5} \div 4 = \frac{\cancel{4}^1}{5} \times \frac{1}{\cancel{4}_1} = \frac{1}{5}$$

Divide by multiplying by a unit fraction.

1. $2 \div 3$ _____

2. $5 \div 10$ _____

3. $\frac{4}{7} \div 2$ _____

4. $1\frac{1}{3} \div 3$ _____

5. $2 \div 5$ _____

6. $3\frac{1}{3} \div 2$ _____

7. $\frac{5}{8} \div 5$ _____

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

9. $\frac{5}{4} \div 2$ _____

10. $\frac{2}{3} \div 4$ _____

11. $2\frac{1}{3} \div 7$ _____

12. $4 \div 3$ _____

13. $\frac{2}{5} \div 3$ _____

14. $1\frac{3}{4} \div 3$ _____

15. $\frac{5}{3} \div 5$ _____

16. $\frac{5}{6} \div 2$ _____

17. $3\frac{1}{2} \div 4$ _____

18. $\frac{7}{5} \div 5$ _____

19. $3\frac{1}{5} \div 4$ _____

20. $4\frac{2}{3} \div 7$ _____

Problem Solving • Reasoning

21. A box of 48 cookies is divided into 6 pouches. How many cookies are in each pouch?

22. A cookie recipe uses $\frac{2}{3}$ cup of brown sugar and makes 24 cookies. How much brown sugar is each in cookie?

Name _____

Date _____

Divide by a Fraction

Divide. Write answers in simplest form.

Example

$$\frac{2}{3} \div \frac{6}{11} = \frac{2}{3} \times \frac{11}{6} = \frac{22}{18} = \frac{11}{9} = 1\frac{2}{9}$$

1. $\frac{2}{3} \div \frac{1}{3}$ _____

2. $\frac{1}{3} \div \frac{3}{4}$ _____

3. $\frac{5}{8} \div \frac{5}{6}$ _____

4. $\frac{3}{5} \div \frac{2}{3}$ _____

5. $\frac{3}{4} \div \frac{2}{3}$ _____

6. $\frac{2}{3} \div \frac{4}{7}$ _____

7. $\frac{1}{3} \div \frac{7}{10}$ _____

8. $\frac{5}{3} \div \frac{1}{3}$ _____

9. $\frac{5}{6} \div \frac{1}{3}$ _____

10. $\frac{11}{12} \div \frac{1}{4}$ _____

11. $\frac{1}{2} \div \frac{7}{8}$ _____

12. $\frac{1}{4} \div \frac{1}{3}$ _____

13. $2\frac{5}{8} \div \frac{1}{8}$ _____

14. $\frac{3}{4} \div \frac{3}{8}$ _____

15. $1\frac{1}{6} \div \frac{5}{6}$ _____

16. $\frac{3}{5} \div \frac{4}{7}$ _____

Problem Solving • Reasoning

17. One-fourth of the students in the fifth grade play baseball. If 30 students play baseball, how many students are in the fifth grade?

18. Marvin is trying to finish a jigsaw puzzle. He has placed $\frac{2}{3}$ of the pieces so far. If he has put in 60 pieces of the puzzle, how many pieces altogether are in the puzzle?

Name _____

Date _____

Divide With Mixed Numbers

Rewrite the expression as a multiplication expression using the reciprocal of the divisor.

Example

$$\frac{2}{3} \div 2\frac{1}{3} = \frac{2}{3} \div \frac{7}{3} = \frac{2}{3} \times \frac{3}{7}$$

1. $\frac{5}{7} \div 2\frac{1}{4}$

2. $\frac{3}{5} \div 4\frac{2}{3}$

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

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

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

6. $2\frac{3}{8} \div 1\frac{2}{3}$

Write each quotient in simplest form.

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

8. $\frac{5}{6} \div 1\frac{5}{6}$ _____

9. $\frac{1}{2} \div 3\frac{1}{4}$ _____

10. $1\frac{2}{5} \div 1\frac{3}{5}$ _____

11. $\frac{1}{5} \div 3\frac{4}{5}$ _____

12. $\frac{2}{3} \div 1\frac{1}{9}$ _____

13. $\frac{3}{4} \div 1\frac{1}{2}$ _____

14. $2\frac{1}{3} \div 1\frac{1}{6}$ _____

15. $\frac{7}{8} \div 2\frac{3}{4}$ _____

Problem Solving • Reasoning

16. Taylor collected $4\frac{1}{3}$ gallons of rain water and used $2\frac{1}{2}$ gallons to water her indoor plants. What fraction of the water she collected did she use to water the plants?
- _____

17. Zack has a rope $10\frac{1}{2}$ feet long. If he cuts it into pieces each $2\frac{1}{3}$ feet long, how many pieces can he cut?
- _____