

Going Into 7th Grade Recommended Book List

Summer Reading

You need to read at least one of the books on this list of your own personal preference over the summer. Then you are to fill out the plot diagram when completed. This will be turned into your 7th grade ELA teacher in September and be graded.

Book List:

- ***The Hunger Games trilogy*** by Suzanne Collins
- ***Little Women*** by Louisa May Alcott
- ***Stargirl*** by Jerry Spinelli
- ***Wings of Fire*** by Tui T. Sutherland
- ***Hoot*** by Carl Hiassan
- ***The Wollstonecraft Detective Agency The Case of the Missing Moonstone*** by Jordan Stratford
- ***Roller Girl*** by Victoria Jamison (graphic novel)
- ***Fish in a Tree*** by Lynda Mullaly Hunt
- ***A Whole Nother Story*** by Cuthbert Soup
- ***Middle School: The Worst Years of my Life*** by James Patterson and Chris Tebbetts
- ***Strange Case of the Origami Yoda*** by Tom Angleberger
- ***Insignificant Events in the Life of a Cactus*** by Dusti Bowling
- ***Booked*** by Kwame Alexander
- ***Echo*** by Pam Munoz Ryan
- ***Iron Trial (Magisterium series)*** by Holly Black
- ***The Menagerie*** by Tui T. Sutherland
- ***Keeper of the Lost Cities*** by Shannon Messenger
- ***Unwanted*** by Lisa McMann
- ***Shadow Children series*** by Margaret Peterson Haddix
- ***Percy Jackson series*** by Rick Riordan

Recommended Authors:

- Kate DiCamillo
- Lois Lowry
- Dan Gutman
- Matt Christopher (sports)
- Katherine Applegate

Lesson 1.7 Greatest Common Factor

A **factor** is a divisor of a number. (For example, 3 and 4 are both factors of 12.) A **common factor** is a divisor that is shared by two or more numbers. (1, 2, 4, and 8). The **greatest common factor** is the largest common factor shared by the numbers (8).

To find the greatest common factor of 32 and 40, list all of the factors of each.

$$32 \begin{array}{l} \swarrow 1 \times 32 \\ \quad 2 \times 16 \\ \searrow 4 \times 8 \end{array} \quad 1, 2, 4, 8, 16, \text{ and } 32$$

$$40 \begin{array}{l} \swarrow 1 \times 40 \\ \quad 2 \times 20 \\ \quad 4 \times 10 \\ \searrow 5 \times 8 \end{array} \quad 1, 2, 4, 5, 8, 10, 20, \text{ and } 40$$

The greatest common factor is 8.

List the factors of each number below. Then, list the common factors and the greatest common factor.

	Factors	Common Factors	Greatest Common Factor
1.	8 _____ 12 _____	_____	_____
2.	6 _____ 18 _____	_____	_____
3.	24 _____ 15 _____	_____	_____
4.	4 _____ 6 _____	_____	_____
5.	5 _____ 12 _____	_____	_____
6.	16 _____ 12 _____	_____	_____

Lesson 1.8 Least Common Multiple

Find the least common multiple by listing multiples of each number until finding the first one they share.

8, 16, 24

12, 24

} The Least Common Multiple is 24.

Find the least common multiple for each set of numbers.

	a		b
1. 51 and 18	_____	104 and 76	_____
2. 54 and 64	_____	20 and 26	_____
3. 78 and 110	_____	42 and 63	_____
4. 23 and 92	_____	75 and 15	_____
5. 28 and 32	_____	12 and 16	_____
6. 9, 45, and 81	_____	21, 45, and 6	_____
7. 17, 24, and 53	_____	86, 68, and 20	_____

**Check What You Learned****Understanding the Number System and Operations**

Rewrite each expression using the Distributive Property.

a**b**

1. $3 \times (5 - 2) =$ _____

$(5 \times 2) + (8 \times 2) =$ _____

2. $7 \times (7 - 4) =$ _____

$(7 \times 6) - (7 \times 3) =$ _____

3. $3 \times (8 + 2) =$ _____

$5 \times (9 - 4) =$ _____

Find the Greatest Common Factor of each set of numbers.

a**b****c**

4. 40, 4 _____

30, 12 _____

4, 10 _____

5. 20, 24 _____

3, 10 _____

24, 2 _____

Find the Least Common Multiple of each set of numbers.

6. 30, 15 _____

15, 5 _____

20, 4 _____

7. 5, 12, 10 _____

3, 8 _____

40, 3, 24 _____

Lesson 1.11 Problem Solving**SHOW YOUR WORK**

Solve each problem.

1. A package weighs 2.6 pounds. How much do 8 of the same-sized packages weigh?

The packages weigh _____ pounds.

2. It takes Maxine 0.3 hours to make a potholder. How many potholders can she make in 4.5 hours?

She can make _____ potholders.

3. A box of grass seed weighs 0.62 pounds. How much does a box containing 0.75 times as much grass seed weigh?

The box weighs _____ pounds.

4. A collection of nickels is worth \$18.60. How many nickels are in the collection?

There are _____ nickels in the collection.

5. Mrs. Anderson bought party favors for the 24 students in her class. Each favor costs \$2.27. How much did all the party favors cost?

The favors cost _____.

6. Each prize for a carnival booth costs \$0.32. How many prizes can you buy with \$96?

You can buy _____ prizes.

7. Brittany has a pack of 24 pencils. Each pencil weighs 0.9 grams. How much does the pack of pencils weigh?

The pack of pencils weighs _____ grams.

1.

2.

3.

4.

5.

6.

7.

Lesson 3.6 Understanding Percents

The symbol % (percent) means $\frac{1}{100}$ or 0.01 (one hundredth).

$$\begin{aligned} 7\% &= 7 \times \frac{1}{100} \\ &= \frac{7}{1} \times \frac{1}{100} \\ &= \frac{7}{100} \end{aligned}$$

$$\begin{aligned} 6\% &= 6 \times 0.01 \\ &= 0.06 \end{aligned}$$

$$\begin{aligned} 23\% &= 23 \times \frac{1}{100} \\ &= \frac{23}{100} \end{aligned}$$

$$\begin{aligned} 47\% &= 47 \times 0.01 \\ &= 0.47 \end{aligned}$$

Write the fraction and decimal for each percent. Write fractions in simplest form.

	Percent	Fraction	Decimal
1.	2%	_____	_____
2.	8%	_____	_____
3.	27%	_____	_____
4.	13%	_____	_____
5.	68%	_____	_____
6.	72%	_____	_____
7.	56%	_____	_____
8.	11%	_____	_____
9.	3%	_____	_____
10.	22%	_____	_____
11.	17%	_____	_____
12.	83%	_____	_____
13.	97%	_____	_____
14.	43%	_____	_____


Check What You Know
Ratios, Rates, and Percents

Solve each proportion.

- | | a | | b | | c | |
|----|-------------------------------------|-------|--------------------------------------|-------|--------------------------------------|-------|
| 1. | $\frac{7}{5} = \frac{28}{\square}$ | _____ | $\frac{4}{6} = \frac{\square}{21}$ | _____ | $\frac{6}{\square} = \frac{15}{20}$ | _____ |
| 2. | $\frac{\square}{9} = \frac{14}{18}$ | _____ | $\frac{15}{18} = \frac{10}{\square}$ | _____ | $\frac{\square}{30} = \frac{13}{10}$ | _____ |
| 3. | $\frac{10}{8} = \frac{\square}{24}$ | _____ | $\frac{11}{12} = \frac{44}{\square}$ | _____ | $\frac{\square}{2} = \frac{9}{6}$ | _____ |
| 4. | $\frac{12}{\square} = \frac{4}{5}$ | _____ | $\frac{10}{14} = \frac{\square}{35}$ | _____ | $\frac{10}{\square} = \frac{25}{15}$ | _____ |

Write the equivalent decimal and fraction for each percent.

- | | a | b | | c | d |
|---------|---------|----------|---------|---------|----------|
| Percent | Decimal | Fraction | Percent | Decimal | Fraction |
| 5. 15% | _____ | _____ | 22% | _____ | _____ |
| 6. 120% | _____ | _____ | 54% | _____ | _____ |
| 7. 36% | _____ | _____ | 205% | _____ | _____ |

For each fraction or decimal, write the equivalent percent.

- | | a | | b | | c |
|----|------------------------|-----------------------|-----------------------|--|---|
| 8. | $\frac{3}{25} =$ _____ | $0.01 =$ _____ | $\frac{2}{5} =$ _____ | | |
| 9. | $4.06 =$ _____ | $\frac{1}{8} =$ _____ | $0.6 =$ _____ | | |

Complete each sentence.

- | a | b |
|---------------------------------------|----------------------|
| 10. 90% of 120 is _____. | 18 is 40% of _____. |
| 11. 3.6 is 5% of _____. | 27 is _____% of 108. |
| 12. $37\frac{1}{2}\%$ of 64 is _____. | 35 is 25% of _____. |
| 13. 39 is _____% of 52. | 28 is _____% of 20. |
| 14. 110% of 55 is _____. | 82 is _____% of 40. |

Cursive Alphabet

Aa Bb Cc Dd Ee

Ff Gg Hh Ii

Jj Kk Ll Mm

Nn Oo Pp Qq Rr

Ss Tt Uu Vv

Ww Xx Yy Zz

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