Divine Child Junior High

Incoming 7th Grade Summer Reading Expectations

Reading during the summer...

-Builds vocabulary -Models quality sentence structure -

Improves writing -Fun!

-Increases reading stamina -Prevents a decline in reading level

What will you read? Only one book is required

Required Summer Reading Novel: The War That Saved My Life

• Novel by Kimberly Brubaker Bradley

This novel will be assessed the week you return to school. Please have it finished by August 22, 2022

I encourage you to read more than one book over the summer. Here is a **suggested** list below. If/when choosing additional books, make sure it is at your lexile level (Grade level appropriate).

What you can't read:

Do not reading the following novels:

- The Giver by Lois Lowry
- The Outsiders by S.E. Hinton
- The Red Fern Grows by Wilson Rawls
- Girl, Stolen April Henry
- Tuck Everlasting by Natalie Babbitt
- Fever 1793 by Laurie Anderson

No repeats from your 6th grade class or your Reading Counts

Suggested Reading List

Book	Lexile
Soar	510
Rise of the Elgen	610
The Best Man	540
Troll Hunters	580
The Girl Who Drank the Moon	640
Terror at Bottle Creek	650
Booked	660
Number the Stars	670
The Book Thief	700
Lost in the Sun	700
The Scourge	740
The Night Parade	760
Listen, Slowly	800
All We Have Left	800
The Secret Keepers	820
Me and Miranda Mullaly	850
The Lie Tree	860
Roll of Thunder Hear My Cry	920
Thorn Ogres of Hagwood	1010
Ten Days of Madwoman	1210



⇒ According to Johns Hopkins University, the effects of summer learning loss can result in nearly a three-month loss in grade-level equivalency in math and a two-month loss in grade-level equivalency in reading. In order to close the summer learning loss gap in reading, middle school students will be expected to complete Summer Learning before they return in the fall. Below are the expectations for literacy. Thank you so much for supporting your child's development through summer learning.



SUMMER MATH FOR STUDENTS ENTERING 7TH GRADE



Dear Parents and Guardians,

To help students retain math concepts and skills learned this school year, a summer math packet has been created for your child. The packet contains practice that will review, maintain, and reinforce the skills and concepts introduced, developed, and mastered during the school year. Parent participation to review the student's work is encouraged. If your child is having trouble with a particular concept, please do an internet search using the title of the math page. There are many helpful math tutorial videos available, especially by Khan Academy or Math Antics. The summer math packet is to be completed throughout the summer. It is not meant to be completed before school is out this year or just before school starts in the fall. We have created this packet with the intention that your student will complete 2 pages of math per week. Students benefit from completing the packet a little bit at a time. Please have your child turn in the math packet to the homeroom teacher or math teacher during the first full week of school in the fall.

In addition, students are also welcome to use Freckle during the months of June and July. Through the last day of July, students can use the same class code they have used during this school year and the work presented will be tailored to him/her based on STAR test data. Freckle will find and help fill learning gaps with adaptive differentiated instruction. This will help them be MATHTASTIC!

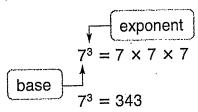
Have a blessed, fun and safe summer!

Exponents

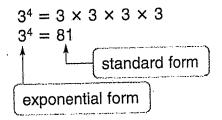
Name _____

Date _

An exponent tells how many times to use the base as a factor.



Read 7³ as: "7 cubed." "7 to the third power," or "the third power of 7."



Write each product in exponential form.

1.
$$5 \times 5 \times 5 \times 5 \times 5 \times 5$$
 2. $21 \times 21 \times 21 \times 21$ **3.** $3 \times 3 \times 3 \times 3 \times 3 \times 3$

2.
$$21 \times 21 \times 21 \times 21$$

3.
$$3 \times 3 \times 3 \times 3 \times 3$$

Write the standard form for each.

Write the missing exponents.

14.
$$8^{x} = 64$$

15.
$$12^y = \frac{1}{2}$$

15.
$$12^y = 1$$
 16. $10^n = 100,000$ **17.** $11^a = 1331$

17.
$$11^a = 1331$$

Compare. Write <, =, or >.

Problem Solving

22. There are 55 students at West High School and 46 students at East High School. How many students are at both schools combined?

Evaluate Algebraic Expressions

Name _ Date

Evaluate $8 + x^4 - k$, when x = 3and k = 6. Simplify using the order of operations. 89 - 683 value of the expression

Evaluate
$$2y + 15 - 0.5y$$
, when $y = 5$.

$$(2y - 0.5y) + 15 \leftarrow \text{Combine like terms.}$$

$$1.5y + 15 \leftarrow \text{Simplify.}$$

$$1.5 \cdot 5 + 15 \leftarrow \text{Replace } y \text{ with } 5.$$

$$22.5 \leftarrow \text{value of the expression}$$

Evaluate each expression.

1.
$$95 - a(b + c)$$
, when $a = 9$, $b = 3$, and $c = 7.4$

2.
$$(j-2)^3 + k \div l$$
, when $j = 9$, $k = 4.5$, and $l = 3$

3.
$$(1.42 + t) \times u + \frac{0.42}{v}$$
, when $t = 13.5$, $u = 7$, and $v = 6$

4.
$$(g + h \times 7)^2 - 12i$$
, when $g = 8$, $h = 1$, and $i = 3$

Simplify by combining like terms. Then evaluate the expression for the given value of the variable.

5.
$$30y - 5y - 8$$
, when $y = 3$

6.
$$9g^3 + 8g^3 + 743$$
, when $g = 2$

7.
$$6s^4 - 9s^2 - 2s^4$$
, when $s = 5$

8.
$$17p + 8p - 91 + 12q$$
, when $p = 11$ and $q = 9$

Problem Solving Write and evaluate an algebraic expression.

9. Dora buys some T-shirts for \$8.75 each and a pair of shoes for \$27.50. If she buys 4 T-shirts, how much money does she spend in all?

10. Rich buys 3 packages of paper plates for the carnival. He also rents a picnic

table for \$180. How much money does Rich spend in all if the paper plates cost \$1.95 per package?

Multiply and Divide by Positive Powers of Ten (A)

Find each product or quotient.

$$9.15 \div 10^3 =$$

$$9.7 \times 10^{1} =$$

$$0.3 \div 10^3 =$$

$$2.134 \div 10^2 =$$

$$2.4784 \times 10^3 =$$

$$2.318 \div 10^3 =$$

$$5.615 \div 10^1 =$$

$$7.5077 \div 10^3 =$$

$$9.8116 \times 10^2 =$$

$$7.7169 \div 10^{1} =$$

Converting Fractions (A)

Name:

Date:

Convert mixed to improper fractions and improper to mixed fractions.

$$\frac{10}{3} = -$$

$$\frac{19}{4} = -$$

$$1\frac{5}{9} = -$$

$$\frac{82}{15} = -$$

$$4\frac{11}{12} = -$$

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

$$4\frac{9}{10} = -$$

$$6\frac{5}{7} = -$$

$$9\frac{8}{15} = --$$

$$1\frac{7}{9} = -$$

$$\frac{43}{7} = -$$

$$6\frac{1}{6} = -$$

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

$$\frac{97}{10} = -$$

$$1\frac{3}{10} = -$$

$$\frac{49}{5} = -$$

Adding and Subtracting Fractions (A)

Find the value of each expression in lowest terms.

1.
$$\frac{7}{4} - \frac{8}{5}$$

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

9.
$$\frac{4}{3} - \frac{2}{5}$$

2.
$$\frac{23}{2} + \frac{9}{4}$$

6.
$$\frac{7}{10} + \frac{2}{5}$$

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

Adding and Subtracting Mixed Fractions (A)

Find the value of each expression in lowest terms.

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

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

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

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

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

10.
$$5\frac{1}{2} + 5\frac{1}{4}$$

Multiplying and Dividing Fractions (A)

Find the value of each expression in lowest terms.

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

$$6. \ \frac{1}{4} \times \frac{5}{3}$$

11.
$$\frac{10}{3} \times \frac{11}{6}$$

$$2. \ \frac{1}{6} \div \frac{8}{11}$$

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

12.
$$\frac{1}{2} \div \frac{1}{2}$$

3.
$$\frac{1}{3} \div \frac{13}{9}$$

8.
$$\frac{4}{3} \div \frac{11}{12}$$

13.
$$\frac{14}{9} \times \frac{7}{10}$$

Multiplying and Dividing Mixed Fractions (A)

Find the value of each expression in lowest terms.

1.
$$3\frac{2}{7} \div 1\frac{1}{4}$$

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

11.
$$1\frac{3}{8} \div 1\frac{1}{12}$$

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

7.
$$1\frac{1}{3} \times 2\frac{1}{5}$$

12.
$$2\frac{7}{8} \div 5\frac{1}{2}$$

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

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

13.
$$3\frac{2}{3} \div 1\frac{1}{6}$$

Addition Equations

Solve: 38.6 = h + 5.7 + 19.8

 $38.6 = h + 5.7 + 19.8 \leftarrow$ Simplify by adding the numbers on one side.

38.6 = h + 25.5

38.6 - 25.5 = h + 25.5 - 25.5 Subtract 25.5 from both sides to isolate the variable.

13.1 = h

Solve and check.

1.
$$7 + y = 25$$

2.
$$1.5 = s + 0.3$$

3.
$$p + 22 = 64$$

4.
$$50 = b + 25$$

5.
$$p + 86 = 100$$

6.
$$x + 0.5 = 1$$

7.
$$h + $3.85 = $7.50$$

8.
$$k + 7 = 77$$

9.
$$r + $.80 = $1.80$$

10.
$$$18.50 + a = $30$$
 11. $1.09 + b = 4.6$ **12.** $d + 10.1 = 92$

11.
$$1.09 + b = 4.6$$

12.
$$d + 10.1 = 92$$

Subtraction Equations

Name _____

Solve:
$$s - 23.5 = 82$$

 $s - 23.5 + 23.5 = 82 + 23.5 \leftarrow$
 $s = 105.5$

Add 23.5 to both sides to isolate the variable.

Check: 105.5 - 23.5 = 8282 = 82 True

Solve and check.

1.
$$d - 6 = 33$$

2.
$$12 = z - 10$$

3.
$$$45.58 - e = $19.95$$

4.
$$f - 4.1 = 8.6$$

5.
$$j - \$2.10 = \$7.01$$

6.
$$a - 15 = 0$$

7.
$$h - 53 = 25$$

8.
$$c - 72 = 34$$

9.
$$b - 82.6 = 6.45$$

10.
$$u - \$4.87 = \$.12$$

11.
$$m - 19 = 11$$

12.
$$v - (\$0.65 + \$5.74) = \$8.53$$

13.
$$g - 4.7 = 5.91$$

14.
$$y - 104 = 23$$

15.
$$187 = t - (704 + 59)$$

16.
$$73.4 = k - 62.7$$

17.
$$h - 37 = 279$$

18.
$$(6.13 + 2.46) - s = 3.86$$

Multiplication and **Division Equations**

Solve: 4n = 36

• Divide both sides by 4 to isolate the variable.

$$4n \div 4 = 36 \div 4$$

$$n = 9$$

Solve: $x \div 5 = 3.45$

 Multiply both sides by 5 to isolate the variable.

$$x \div 5 \cdot 5 = 3.45 \cdot 5$$

$$x = 17.25$$

Solve and check.

1.
$$r \div 6 = 10$$
 _____ **2.** $8 \cdot w = 120$ ____ **3.** $15 = \frac{e}{0.5}$

2.
$$8 \cdot w = 120$$

4.
$$8m = 40$$

_____ 5.
$$x \div 6 = 6$$

_____ 6.
$$9 = t \div 8$$

6.
$$9 = t \div 8$$

8.
$$\frac{b}{5} = 15$$

____ **9.**
$$3 = \frac{s}{0.5}$$

10.
$$\frac{y}{19} = $85$$

11.
$$\frac{$385}{k} = $5$$

10.
$$\frac{y}{19} = \$85$$
 11. $\frac{\$385}{k} = \5 **12.** $h \cdot \$250 = \50 **11.**

13.
$$720 = 9t$$

14.
$$4.15 = \frac{c}{0.13}$$

13.
$$720 = 9t$$
 14. $4.15 = \frac{c}{0.13}$ **15.** $4.52u = 31.64$ **17.**

16.
$$d \div 23 = 6.2$$
 17. $9.12 \div s = 2.4$ **18.** $324 = 4a$

17.
$$9.12 \div s = 2.4$$

18.
$$324 = 4a$$

Write and solve an equation.

19. A number m divided by 3.25 is equal to 64.

20. Four tenths multiplied by a number z is equal to six and five tenths.

21. The quotient of a number *n* and seventeen is two hundred eighty-three.

22. The factors are twenty-one and g. The product is forty-eight and three tenths.

Problem Solving Write an equation for each. Then solve.

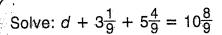
23. Hank bought 5 CDs for \$64.75. If each CD cost the same price, how much did each cost?

24. It is 25.8 miles from Sandra's house to her grandparents' house. This is one fourth the distance from Sandra's house to her cousins' house. How far is it from Sandra's to her cousins'?

Addition and Subtraction **Equations with Fractions**

Name _____

Date



 Simplify by adding the numbers on one side.

 Subtract 8⁵/₉ from both sides to isolate the variable.

· Simplify.

$$d + 8\frac{5}{9} = 10\frac{8}{9}$$

$$d + 8\frac{5}{9} - 8\frac{5}{9} = 10\frac{8}{9} - 8\frac{5}{9}$$

$$d = 2\frac{3}{9} = 2\frac{1}{3}$$

Solve equations with fractions the same way as with whole numbers.

Solve and check.

1.
$$6\frac{2}{9} + x = 12\frac{2}{3}$$

2.
$$5\frac{1}{6} - u = 2\frac{3}{4}$$

3.
$$g + 9\frac{3}{4} = 15\frac{1}{2}$$

4.
$$h - 9\frac{6}{7} = 5\frac{3}{7}$$

5.
$$6\frac{2}{9} + r = 10\frac{1}{2}$$

6.
$$s - \frac{5}{6} = 9\frac{2}{5}$$

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

8.
$$n - 6\frac{1}{4} = 3\frac{5}{6}$$

9.
$$c + 1\frac{7}{8} = 12\frac{1}{2}$$

Multiplication and Division Name_____ **Equations with Fractions**

Date

Solve:
$$d \div \frac{4}{5} = 12\frac{1}{2}$$

 $d \div \frac{4}{5} \times \frac{4}{5} = 12\frac{1}{2} \times \frac{4}{5} \leftarrow \text{[solate the variable.]}$
 $d = \frac{25}{2} \times \frac{4}{5} \leftarrow \text{[compute to solve.]}$
 $d = \frac{25}{2} \times \frac{4}{5} = \frac{10}{1}$
 $d = 10$

Solve: $\frac{2}{5}f + \frac{2}{5}f = \frac{9}{10}$ $\frac{4}{5}f = \frac{9}{10}$ Combine like terms. $d = \frac{25}{2} \times \frac{4}{5}$ Compute to solve. $\frac{4}{5}f \div \frac{4}{5} = \frac{9}{10} \div \frac{4}{5}$ (Isolate the variable. $f = \frac{9}{10} \times \frac{5}{4}$ Compute to solve. $f = \frac{9}{10} \times \frac{\cancel{5}}{4} = \frac{9}{8}$ $f = 1\frac{1}{6}$

Solve for x.

1.
$$\frac{2}{5}x = 48$$

2.
$$35x = \frac{7}{10}$$

3.
$$x \div \frac{7}{8} = 64$$

4.
$$x \div 8\frac{8}{9} = 9$$

5.
$$6\frac{1}{3}x = 2\frac{1}{2}$$

6.
$$x \div 1\frac{1}{4} = 3\frac{3}{5}$$

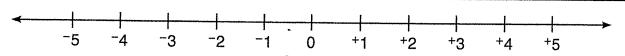
7.
$$\frac{6}{11}x = 7\frac{1}{5}$$

8.
$$x \div 3\frac{3}{4} = 1\frac{7}{25}$$

9.
$$\frac{4}{9}x = \frac{8}{27}$$

Compare and **Order Integers**

Date _____



Compare integers

- Any integer is less than an integer to its right: -4 < -2
- Any integer is greater than an integer to its left: -1 > -5

Order integers

- Least to greatest: -5, -1, +2 Begin with integer farthest to the left.
- Greatest to least: +2, -1, -5 Begin with the integer farthest to the right.

Circle the greater integer. Use a number line to help.

Compare. Write <, =, or >.

Write in order from least to greatest.

Write in order from greatest to least.

	Converting Fractions (A)	
Name:	Date:	

Fill in the missing values. Use part-to-whole ratios.

	Fraction	Decimal	Percent	Ratio
1.	$\frac{1}{2}$			
2.	<u>9</u> 10			
3.	3 10			
4.	<u>4</u> 5			
5.	<u>3</u> 4			
6.	13 20			
7.	<u>5</u> 8			
8.	<u>2</u> 5			
9.	<u>3</u> 8			
10.	<u>1</u> 4			

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Solve Proportions

Date _

Solve the proportion: $\frac{n}{16} = \frac{5}{20}$.

Means **Extremes**

$$\frac{n}{16} \xrightarrow{\frac{5}{20}} \longrightarrow n \times 20 = 16 \times 5$$

$$20n = 80$$

$$20n \div 20 = 80 \div 20$$

$$n = 4$$

Check:

$$\frac{4}{16} \stackrel{?}{=} \frac{5}{20} \longrightarrow 4 \times 20 = 16 \times 5$$

 $80 = 80$

Complete to find the missing term in each proportion.

1.
$$\frac{n}{8} = \frac{30}{48} \longrightarrow n \times 48 = 8 \times 30$$
 2. $\frac{7}{n} = \frac{21}{30} \longrightarrow 7 \times 30 = n \times 21$

$$48n = 240$$

2.
$$\frac{7}{n} = \frac{21}{30} \longrightarrow 7 \times 30 = n \times 21$$

$$210 = 21n$$

Find the missing term in each proportion.

3.
$$\frac{n}{3} = \frac{10}{15}$$

4.
$$\frac{9}{10} = \frac{n}{40}$$

5.
$$\frac{n}{4} = \frac{9}{6}$$

3.
$$\frac{n}{3} = \frac{10}{15}$$
 4. $\frac{9}{10} = \frac{n}{40}$ 5. $\frac{n}{4} = \frac{9}{6}$ 6. $\frac{8}{40} = \frac{n}{20}$

7.
$$\frac{6}{7} = \frac{n}{21}$$

8.
$$\frac{6}{9} = \frac{12}{n}$$

9.
$$\frac{8}{12} = \frac{n}{24}$$

7.
$$\frac{6}{7} = \frac{n}{21}$$
 8. $\frac{6}{9} = \frac{12}{n}$ 9. $\frac{8}{12} = \frac{n}{24}$ 10. $\frac{3}{n} = \frac{24}{16}$

11.
$$\frac{n}{6} = \frac{35}{42}$$

12.
$$\frac{2}{n} = \frac{5}{10}$$

13.
$$\frac{3}{4} = \frac{n}{48}$$

11.
$$\frac{n}{6} = \frac{35}{42}$$
 12. $\frac{2}{n} = \frac{5}{10}$ 13. $\frac{3}{4} = \frac{n}{48}$ 14. $\frac{16}{20} = \frac{48}{n}$

Find the value of a.

Circle the letters of the two ratios that form a proportion.

24. a.
$$\frac{1}{3}$$
 b. $\frac{1}{6}$ c. $\frac{2}{6}$

b.
$$\frac{1}{6}$$

c.
$$\frac{2}{6}$$

25. a.
$$\frac{3}{8}$$
 b. $\frac{5}{6}$ c. $\frac{10}{12}$

b.
$$\frac{5}{6}$$

c.
$$\frac{10}{12}$$

26. a.
$$\frac{5}{10}$$
 b. $\frac{10}{15}$ c. $\frac{1}{2}$

b.
$$\frac{10}{15}$$

c.
$$\frac{1}{2}$$

27. a.
$$\frac{12}{30}$$
 b. $\frac{2}{5}$ c. $\frac{6}{5}$

b.
$$\frac{2}{5}$$

c.
$$\frac{6}{5}$$

28. a.
$$\frac{7}{8}$$
 b. $\frac{21}{24}$ c. $\frac{14}{21}$ 29. a. $\frac{28}{30}$ b. $\frac{35}{50}$ c. $\frac{7}{10}$

b.
$$\frac{21}{24}$$

c.
$$\frac{14}{21}$$

29. a.
$$\frac{28}{30}$$

b.
$$\frac{35}{50}$$

c.
$$\frac{7}{10}$$

30. a.
$$\frac{18}{81}$$
 b. $\frac{3}{14}$ c. $\frac{2}{9}$

b.
$$\frac{3}{14}$$

c.
$$\frac{2}{9}$$

31. a.
$$\frac{4}{16}$$
 b. $\frac{1}{4}$ c. $\frac{1}{8}$

b.
$$\frac{1}{4}$$

c.
$$\frac{1}{8}$$

Discount and Sale Price

Date _____

Name ____

A book that costs \$26.00 is being sold at a 30% rate of discount. What is the discount? What is the sale price?

Sale Price = List Price - Discount

$$D = 30\%$$
 of \$26.00

SP = \$26.00 - \$7.80

$$D = 0.30 \times $26.00$$

SP = \$18.20

D = \$7.80

The sale price of the book is \$18.20.

The discount on the book is \$7.80.

Find the discount and sale price.

	item	List Price	(Rate of Discount)	Discount	Sale Price
1.	Sweater	\$80	25%		
2.	CD	\$14	20%		•
3.	Poster	\$33	15%		
4.	Jacket	\$120	12%		
5.	Computer	\$1800	8%		

Sales Tax and Total Cost

Name _____

Date _____

A shirt costs \$38.95 plus 6% sales tax. What is the total cost?

Total = Marked + Sales Cost Price + Tax

$$T = 6\% \text{ of } \$38.95$$

TC = \$38.95 + \$2.34

$$T = 0.06 \times $38.95$$

TC = \$41.29

$$T = 2.337 \approx $2.34$$
.

The total cost of the shirt is \$41.29.

The sales tax is \$2.34.

Find the sales tax and the total cost.

•	Item	Marked Price	Rate of Sales Tax	Sales Tax	Total Cost
1.	Softball	\$7.98	4%		
2.	Glove	\$45.25	6%		
3.	Wooden Bat	\$23.50	2%		
4.	Thermos	\$18	5%		
5.	Jersey	\$59.95	7%		

Pens cost 4 for \$4.41 or 6 for \$6.03. Which is the better buy?

$$\frac{4}{\$4.41} = \frac{1}{n}$$

$$4 \times n = \$4.41 \times 1$$

$$4n \div 4 = \$4.41 \div 4$$

 $n = \$1.1025$

$$n \approx $1.10$$

$$\frac{6}{\$6.03} = \frac{1}{m}$$

$$6 \times m = \$6.03 \times 1$$

$$6m \div 6 = \$6.03 \div 6$$

$$m = $1.005$$

$$m \approx $1.01$$

To decide which is the better buy, find each unit cost. Then compare them.

\$1.01 < \$1.10

So 6 pens for \$6.03 is a better buy.

Which is the better buy? Explain.

- 1. 3 apples for \$.75 9 apples for \$2.00
- **2.** 4 cans of juice for \$3.20 A 6-pack for \$4.45
 - **3.** 1 pair of socks for \$1.35 3 pairs for \$4.69
- **4.** 1 dozen roses for \$15.25 **5.** 8-oz can for 48¢ \$1.25 per rose
 - 6-oz can for 42¢
- 6. 2-lb box for \$1.84 5-lb box for \$4.50

Estimate using compatible numbers to find the better buy.

- **7.** 1 pair of socks for \$2.50 3 pairs for \$9.65
 - **8.** 1 can of juice for \$.85 6 cans of juice for \$4.75
- 9. 1 dozen rolls for \$3.58 Rolls: 35¢ each

- Bag of 6 oranges for \$2.50
- **10.** 1 orange for \$.35 **11.** 1 dozen pencils for \$3.56 **12.** 10-oz box of cereal for \$3.10 36¢ for 1 pencil
 - 15-oz box of cereal for \$2.99

Problem Solving Tell which is the better buy for each.

- 13. A pair of jeans at Fine Fitters costs \$19.95. The same jeans sell at Custom Clothes for 2 pairs for \$38.95.
- 14. Soap sells for \$2.15 a bar, or one box of 5 bars for \$10.95.
- 15. An 8-oz can of mixed fruit costs \$.83. A 14-oz can costs \$1.38.
- **16.** A package of 4 glasses costs \$2.98. A package of 6 of the same glasses costs \$4.68.

Name :	Score:	
Teacher:	Date:	***************************************

Mean, Mode, Median, and Range

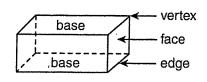
1) 63, 54, 50, 82, 75, 39, 33, 91, 37, 96			6) 86, 59, 58, 91, 30, 73, 51, 77, 44, 17, 85					
Mea	າ	Median	_ Mode	Range	Mean	Median	Mode	Range



Solid Figures

Name	١,	À

Date		
Dale		



Pyramids and prisms other than cubes are named by the shape of their bases. Cylinders, cones, and spheres have curved surfaces.

Complete the table.

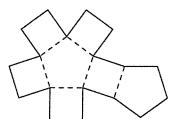
	Solid Figure	Number of		
		Faces	Vertices	Edges
1.	square pyramid			
2.	rectangular pyramid			
3.	pentagonal prism			
4.	triangular pyramid			
5.	rectangular prism			
6.	pentagonal pyramid			
7.	hexagonal prism			
8.	triangular prism	**************************************		,
9.	hexagonal pyramid			

Write the solid figure that can be made from each net.

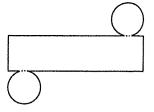
10.



11.



12.



Write True or False for each statement.

- 13. A square pyramid and a rectangular pyramid have the same number of faces and edges.
- 15. A hexagonal prism has 8 hexagonal faces.
- **17.** The base of a cube is a square.

14.	Three of the faces of a		
	triangular prism are		
	rectangles.		

- **16.** A triangular pyramid has 4 triangular faces.
- 18. The number of edges on a cube is triple the number of its faces.

1	1	1
- 1	-	C A

Surface Area of Pyramids and Triangular Prisms

Name _____

Date

Triangular Prism

Square Pyramid

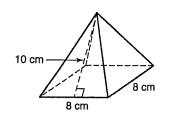
$$S = 4(A_{triangle}) + A_{square}$$

S =Area of bottom face

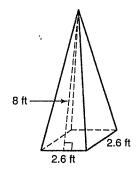
- + Area of rectangular front and back faces
- + Area of triangular bases

Find the surface area of each figure.

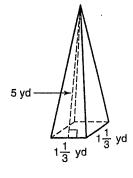
1.



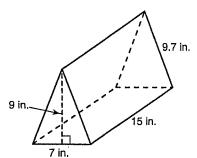
2.



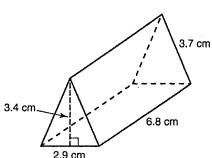
3.



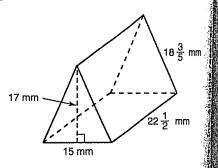
4.



5.

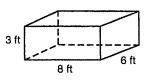


6.

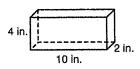


Find the surface area of each rectangular prism.

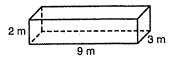
8.



9.



10.



11. $\ell = 12 \text{ dm}$

$$w = 4 \, \mathrm{dm}$$

$$h = 5 dm$$

12. $\ell = 7.1 \text{ m}$

$$w = 4 \text{ m}$$

$$h = 2.3 \text{ m}$$

13. $\ell = 5$ ft

$$w = 2\frac{1}{2}$$
 ft

$$h = 4 f$$

14. $\ell = 6 \text{ yd}$

$$w = 3\frac{1}{3} \text{ yd}$$

$$h = 2\frac{1}{2} \text{ yo}$$