CLASSICAL PREP 6th GRADE SUMMER WORK

Dear Classical Prep Families,

Welcome to summer and welcome to Logic School! You and your scholar have earned the playful, relaxing memories that, we hope, will fill the next few months. We know that the next few months will bring lots of questions about 6th grade–we look forward to answering them when we meet you closer to the beginning of the school year. In the meantime, enjoy your time together and focus on your summer assignments!

Why Summer Work?

At Classical Prep, we want to make sure that our scholars maintain the strongest hold on the academic growth they've attained this year, in addition to arriving in August prepared for a successful year. To achieve that goal, we ask that scholars and families partner with us to ensure that each scholar sets aside time, throughout the summer, to practice the skills they've learned. We also want them to stretch and master skills that might not already be mastered but that are necessary for their success.

MATH: Complete the attached pages, showing your work on every problem. Videos & IXL practice codes will be posted on our Rising 6th Grade Google Classroom (Code: **chfthgmk**) to help you master these topics.

READING: Choose one of the novel options and complete the annotation assignment.

How Much Time Will It Take?

We do not expect scholars to work all day, or even all summer, on these assignments. However, we do want them to practice over time, so cramming all of the assignments in at the end of the summer is NOT what we recommend. Develop a schedule and routine that allows your child to work for 30-60 minutes a day, consistently, throughout the summer.

When Is It Due?

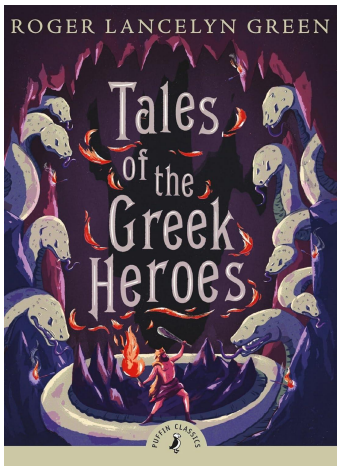
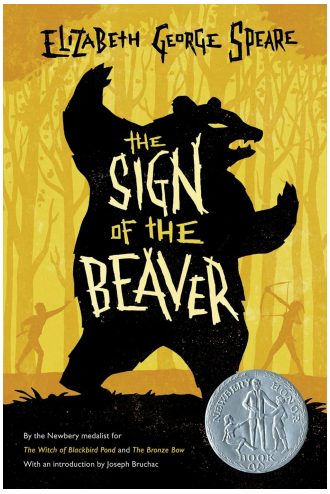
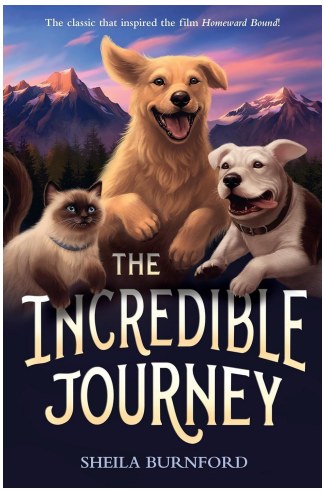
Both the reading and the math summer work will be due on the first day of school (Thursday, August 13, 2026). Each section will be counted as a grade and all ELA classes will be using the summer work as a key component of the essay assignment that will be completed in Week 1. ALL STUDENTS WHO ENROLL BEFORE AUGUST 6th ARE RESPONSIBLE FOR THESE ASSIGNMENTS BY THE FIRST DAY OF SCHOOL. If you enrolled after August began, you will have a two week extension to complete the summer reading & math packet.

Enjoy your summer! We are so excited to meet you and start an amazing new school year in August! If you have any questions or concerns, please reach out to info@classicalprep.org.

With love,
Your Sixth Grade Team

CLASSICAL PREP 6th GRADE: READING

Scholars entering grade 6 will need to **select ONE (1) book from the list below**. Scholars must purchase a personal copy of their selected book so they can annotate directly in the text. Teachers will collect these annotated novels on the first day of school.

6th Grade **Theme:** Developing perseverance (How does a character push through difficult tasks and stand up to fear to do the right thing?)		
Tales of the Greek Heroes by Roger Lancelyn Green	*The Sign of the Beaver* by Elizabeth George Speare	*The Incredible Journey* by Sheila Burnford
		

Can Scholars Read Additional Books?

OF COURSE! We want our scholars reading a wide variety of literature and non-fiction throughout the summer! If you are looking for additional recommendations, we encourage your scholar to choose more than one of the novels from the list to read and enjoy this summer.

We also encourage you and your family to discover new authors, genres, and series that will inspire wonder and curiosity. Think about getting involved in your local library's summer program. We will be asking scholars to have books with them every day next year, so now's the time to find out what they love!

CLASSICAL PREP 6th GRADE: READING

Annotation Assignment Guidelines & Directions

The primary summer reading assignment for Upper School scholars is to thoughtfully read and annotate their chosen text. We recommend that scholars purchase a copy of the book so that they can annotate directly into the text.

PLEASE NOTE: If annotating in the novel is not possible, scholars may record their annotations and thoughts onto lined notebook paper, with page numbers, quotes, and annotations listed for each entry. The expectations and rubric for the assignment will be the same, whether or not the annotations are done on paper or in the text.

Guidelines & Directions:

- In each chapter, highlight at least two (separate) sentences that you find intriguing or thought-provoking OR that lead you to a question about the text.
- For **each** of these highlighted selections, include an annotation (written in the margin) to remind yourself why you highlighted those selections.
- Annotations may focus on any of the following:
    - Location of important plot or character information
    - A place where you learned something new about a character, about life, or about the story
    - A passage that leads you to a question (including vocabulary words!)
    - A description, a development, or a plot point that you found interesting
    - A passage that you thought was well-written or beautiful
    - A moment that made you wonder, prompted curiosity, or made you want to read it again
    - How characters either demonstrate or do not demonstrate the 10 Habits of CPS
    - **ANY** moment where you felt passionately about what you reading–think about these as "talk back" times, when you want to shout at the character or tell them to do something or cheer them on
- Annotations do NOT need to be complete sentences, but you should be able to look back at them and know what you were thinking in that moment.
- **Make sure that your name is in your book, as you will be expected to turn in the annotated book on the first day of school.**

Your annotations will be your grade for your summer assignment and will help you during class discussions and writing activities. The rubric for the Annotation Assignment can be found in this packet.

CLASSICAL PREP 6th GRADE: MATH

Add your family to our Rising 6th Grade Google Classroom!

- Log into your student's CPS Google account
- Go to classroom.google.com
- Add yourself to the Summer Google Classroom by using the following class code: **chfthgmk**
- Videos and IXL codes will be in the Classwork section, separated by topic

MATH FACT PRACTICE DIRECTIONS

EVERY rising 6th grade scholar is expected to have mastered multiplication & division facts up to 12. Mastery means that those facts are memorized and quickly accessible so that the scholar can turn attention to grasping more complex concepts.. To ensure that this mastery is complete, we are asking that every rising 6th grade scholar continue math fact practice during the summer.

- Math fact practice should take no more than 10 minutes a day.
- **REMEMBER**: Consistency is key!
- Make or purchase a set of multiplication AND division flashcards.
- Practice the flashcards for five to ten minutes per day.
- Don't be afraid to look for other options, like learning games and apps, to help your child practice these facts.

MATH WORKSHEET PACKET DIRECTIONS

- Work through the provided math packet, which has been created based on 5th Grade 2025 FAST math scores.
- It is likely that some of these topics will be a stretch for many scholars. Please exhibit fortitude, working consistently and seeking out resources for help.
- **DO NOT USE A CALCULATOR.** Practice and allow your brain to grow.
- Aim for a few pages per week, focusing on understanding and mastery rather than speed.
- **IF YOU GET STUCK OR DON'T KNOW WHERE TO START:**
  - Watch the videos posted on our Google Classroom.
  - Practice an IXL code (listed on the Google Classroom).
  - Move on to something else and come back to that page

A NOTE ABOUT IXL OVER THE SUMMER

IXL is an **invaluable** resource for bridging gaps, especially in math. Please feel free to use it to practice concepts that are not yet mastered. The IXL diagnostic can help you pinpoint areas for growth, and recommended skills are a great place to start for additional practice. While we are not requiring specific codes over the summer, we are expecting that scholars return to school feeling comfortable and confident with the materials in their math packet. If they're not, IXL should be a part of your summer learning plan.

IXL practice will be a requirement for every rising 6th grade math student next year, so getting comfortable and familiar with the platform is a good option over the summer!

CLASSICAL PREP 6th GRADE: MATH

MATH PACKET PAGES CHECKLIST

EXPECTATIONS:

- All work will be shown to justify answer.
- All work will be neatly written either in the space on the worksheet or, if there is not enough space, on lined paper.
- Work will be organized, clear, and complete.

- ❏ Round Number 0-1,000,000 to the nearest 1,000
- ❏ Mixed Rounding: Round Number to the Underlined Digit
- ❏ Estimation Word Problems
- ❏ Adding Large Numbers in Columns
- ❏ Subtracting Large Numbers in Columns
- ❏ Monster Mystery (Multiplication)
- ❏ Long Division Word Problems
- ❏ Divisibility Rules for 2, 5, and 10
- ❏ Order of Operations
- ❏ Simplifying Fractions Sheet 2
- ❏ Equivalent Fractions
- ❏ Adding Mixed Numbers with Like Denominators
- ❏ Adding Mixed Numbers with Unlike Denominators
- ❏ Subtracting Mixed Numbers with Like Denominators
- ❏ Subtracting Mixed Numbers with Unlike Denominators
- ❏ Adding Fractions with Unlike Denominators Riddle (Ghost)
- ❏ Pumpkin Patch Sequences (Adding Fractions with Unlike Denominators)
- ❏ Dividing Fractions by Fractions Riddle (Blue Elephant)
- ❏ Dividing Fractions by Fractions Riddle (Crate of Ducks)
- ❏ Fraction Word Problems
- ❏ Decimals: Hundredths and Tenths
- ❏ Lesson 2: Writing Decimals in Fraction & Word Form (2 pages)
- ❏ Adding Decimals in Columns
- ❏ Subtracting Decimals in Columns
- ❏ Multiplying Decimals in Columns
- ❏ Long Division with Decimals
- ❏ Decimals: Shopping for Easter Treats
- ❏ Ordered Pairs
- ❏ Coordinate Plane Word Problems
- ❏ Area & Perimeter of Rectangles
- ❏ Prisms & Pyramids (Resource Sheet–No Work)
- ❏ Identifying Three-Dimensional Figures
- ❏ Volume: Counting Cubes
- ❏ Counting Cubes: Rectangular Prisms

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THINGS YOU SHOULD KNOW

Measurement Conversions:

Metric Length	Metric Weight	Metric Capacity
10 mm = 1 cm 100 cm = 1 m 1,000 mm = 1 m 1,000 m = 1 km	1 kg = 1,000 g 1 g = 1,000 mg	1 kL = 1,000 L 1 L = 1,000 mL

Standard Length	Standard Weight	Metric Capacity
1 mi. = 1,700 yd. 1 mi. = 5,280 ft. 1 yd. = 3 ft. 1 ft. = 12 in.	16 oz. = 1 lb. 1 T = 2,000 lbs.	1 gal = 4 qt. 1 gal = 128 fl oz. 1 qt. = 2 pts. 1 pt. = 2 c. 1 c. = 8 fl oz.

Formulas:

Area of squares and rectangles: $A = l \cdot w$

Volume of rectangular prisms: $V = l \cdot w \cdot h$

Order of Operations:

P : Parenthesis
E : Exponents
MD : Multiplication OR Division (from left to right)
AS : Addition OR Subtraction (from left to right)

Decimal Operations:

	The Steps
Add	• Line up the decimals. • Fill in empty spaces with a zero. • Add. • Drop the decimal down into your answer.
Subtract	• Line up the decimals. • Fill in empty spaces with a zero. • Subtract. • Drop the decimal down into your answer.
Multiply	• Multiply as you normally would. • Count the number of decimal places in the factors. • The product should have the same number of decimal places as the factors.
Divide	• Divide as you normally would. • Float the decimal up into your answer.

Fraction Operations:

	The Steps
Add	• Re-write each fraction with the LCD. • Add the numerators. • Simplify.
Subtract	• Re-write mixed numbers as improper fractions. • Re-write each fraction with the LCD. • Subtract the numerators. • Simplify.
Multiply	• Re-write mixed numbers as improper fractions. • Multiply straight across. • Simplify.
Divide	• Re-write mixed numbers as improper fractions. • Flip the second fraction. • Change the division sign to multiplication. • Multiply straight across. • Simplify.

Round numbers 0-1,000,000 to the nearest 1,000

Grade 5 Rounding Worksheet

Example: 954,689 rounded to the nearest 1,000 is 955,000

Round to the nearest thousand.

1. 777,973 = _____
2. 18,591 = _____
3. 3,383 = _____
4. 319,771 = _____
5. 9,299 = _____
6. 219,967 = _____
7. 115,261 = _____
8. 493,066 = _____
9. 166,914 = _____
10. 9,561 = _____
11. 948,324 = _____
12. 71,786 = _____
13. 6,078 = _____
14. 1,005 = _____
15. 46,673 = _____
16. 2,443 = _____
17. 887,510 = _____
18. 24,248 = _____
19. 553,681 = _____
20. 29,686 = _____
21. 679,398 = _____

Mixed rounding: round numbers to the underlined digit

Grade 5 Rounding Worksheet

Example: 54,689 rounded to the nearest 1,000 is 55,000

Round to the accuracy of the underlined digit.

1. 4,7<u>9</u>0 = _____
2. <u>8</u>,210 = _____
3. <u>1</u>,233 = _____
4. 88,<u>7</u>18 = _____
5. <u>9</u>,236 = _____
6. 63,<u>5</u>00 = _____
7. <u>3</u>7,627 = _____
8. 7,<u>0</u>57 = _____
9. 5,<u>9</u>54 = _____
10. 4<u>2</u>,004 = _____
11. 5<u>6</u>,823 = _____
12. <u>6</u>4,197 = _____
13. 58,<u>1</u>73 = _____
14. <u>6</u>,141 = _____
15. 3,6<u>5</u>2 = _____
16. 23,<u>3</u>69 = _____
17. 72,<u>2</u>13 = _____
18. 1,<u>0</u>36 = _____
19. 5,<u>3</u>70 = _____
20. 12,<u>0</u>18 = _____
21. <u>6</u>8,720 = _____

K5 Learning

Estimation word problems

Grade 5 Word Problems Worksheet

Read and answer each question:

1. There are about 795 houses in this region. The average family size is 6 people. There are about _____ people living in the region.

   a. 4,800 b. 5,000 c. 5,500

2. In a town, there are 1,349 families. If there are on average two children attending elementary school from each family and each school can accommodate 220 children, the minimum number of elementary schools needed in the region is _____.

   a. 6 b. 9 c. 13

3. In 2017, a survey finds that there are 34 babies born for every 1,000 families in a city. Among these babies, 20 of them are boys. There are 88,326 families in this city in 2017 and the total number of girls born in this year is about _____.

   a. 1,200 b. 1,500 c. 1,800

4. The population of a city is 67,721 and the neighboring city has a population of 52,103. The difference between two cities is _____.

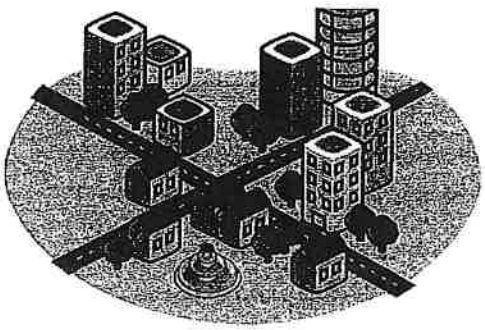
   a. 13,000 b. 14,000 c. 16,000

5. In 2016, the population of a region was 91,274. In 2017, the population was increased by 6,015. In 2017, the population was about _____.

   a. 85,000 b. 97,300 c. 99,800

6. There are 26,358 children living in this town. Half of the children are boys. There are about _____ boys living in this town.

   a. 12,800 b. 13,000
   c. 13,300



Adding large numbers in columns (6 addends)

Grade 5 Addition Worksheet

Find the sum.

1.
```
      419
   96,047,592
      851,903
    1,547,123
       27,814
+     607,059
```

2.
```
      783
       87
   35,394,723
      307,616
   21,156,531
+     946,909
```

3.
```
     74,298
   93,381,557
   43,673,780
          445
    2,378,754
+         626
```

4.
```
     97,824
      4,169
  2,019,792
         90
 74,322,265
+    7,345
```

5.
```
         60
     79,336
        162
      2,047
    968,478
+    88,766
```

6.
```
 92,174,839
         17
 27,042,949
  1,481,659
    529,476
+     9,894
```

Subtracting large numbers in columns

Grade 5 Subtraction Worksheet

Find the difference.

1. 57,644,196
   - 49,732,152

2. 858,074
   - 674,720

3. 7,833,285
   - 850,909

4. 22,647
   - 17,906

5. 6,134,175
   - 624,228

6. 94,101,219
   - 39,009,017

7. 334,084
   - 81,100

8. 95,561,655
   - 64,142

9. 81,835,443
   - 4,916,527

10. 26,031,139
    - 81,399

Name _____ Date _____

MULTIPLICATION

2 digits x 3 digits

Monster Mystery

Solve the ten multiplication problems below. Write the answers in the across and down spaces in the cross-number puzzle. The numbers in the shaded boxes show where the letters should go in the code at the bottom to solve this riddle:

What did the hungry monster eat after the dentist pulled its tooth?

ACROSS

1. 384 × 64

5. 908 × 62

6. 787 × 78

8. 473 × 64

9. 669 × 66

DOWN

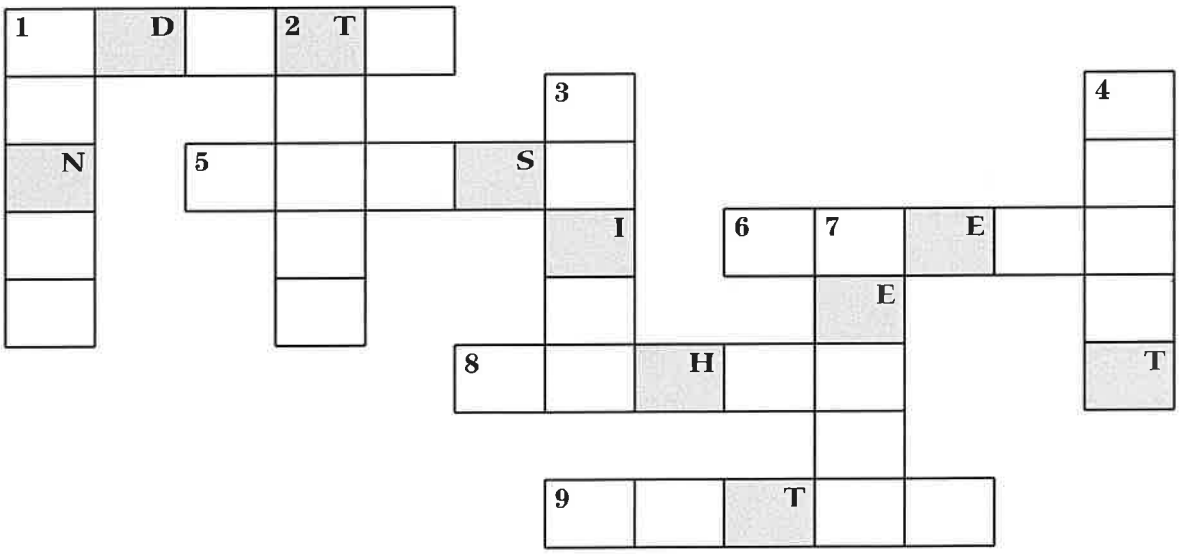
1. 586 × 37

2. 824 × 93

3. 960 × 28

4. 168 × 75

7. 339 × 45



1	2	3

4	5	6	7	8	9	0

Name _____

Long Division Word Problems

Solve each word problem.

Show your work in this column.

1. The Starline Express is a train that can transport 567 people from Greenville to Snowtown. There are 9 passenger cars on the train. Each car can carry the same number of passengers. How many people can each passenger car hold?

   Answer: _____

2. There are 788 students at Maple Elementary School. They are each given one colored t-shirt to wear on field day. The t-shirts are red, green, yellow, and blue. There is an equal number of each colored shirt. How many students received a red shirt?

   Answer: _____

3. Ollivander's Stuffed Bear Shop has 456 bears in stock. Exactly half of them are made from wool. How many wool bears does Mr. Ollivander have in stock?

   Answer: _____

4. New Era Baseball Cap factory made 315 caps last week. The factory operated from Monday through Friday, and they were closed for the weekend. On average, how many caps did they make per day?

   Answer: _____

Name _____

Rising 5th Grade Math Packet

Divisibility Rules for 2, 5, and 10 (A)

Circle the numbers that are divisible by the number given.

Divisible by 2?

464	172	392	484	428	734	466	920
236	134	268	929	807	163	103	358
642	359	216	578	866	287	105	120

Divisible by 5?

405	991	815	640	127	986	682	301
884	599	636	707	798	895	274	902
549	323	531	250	980	642	469	182

Divisible by 10?

409	234	272	778	364	646	587	653
793	689	110	289	457	290	982	567
482	534	525	141	180	996	707	470

Divisible by 2 and 5?

529	241	907	642	455	759	780	578
389	240	884	163	929	164	875	288
283	123	908	553	824	734	657	504

Divisible by 5 and 10?

528	659	717	972	343	707	762	672
529	519	151	832	847	817	749	426
127	317	537	153	185	290	314	457

K5 Learning

Order of operations

Grade 5 PEMDAS Worksheet

The order of operations:
1. *Parentheses ()*
2. *Exponents 5^2*
3. *Multiplication × or Division ÷*
4. *Addition + or Subtraction –*

Solve the following using PEMDAS

1. $3 \times 9 + 7$
2. $12 + 36 \div 4$
3. $9 \div 3 + 4 \times 6$
4. $2 \times 11 - 12 \div 2$
5. $8 \times 18 \div 4 + 15$
6. $(67 - 18) \div 7 \times 3$
7. $5^2 - 8$
8. $2^3 \times 3^2$
9. $4^2 \times (8 - 3)$
10. $(7 \times 8 - 4) \div (6 - 2)$

Name _____

SIMPLIFYING FRACTIONS SHEET 2

Write these fractions in their simplest form.

1) $\frac{14}{20}$ =

2) $\frac{4}{8}$ =

3) $\frac{9}{12}$ =

4) $\frac{12}{15}$ =

5) $\frac{8}{18}$ =

6) $\frac{14}{21}$ =

7) $\frac{12}{16}$ =

8) $\frac{10}{24}$ =

9) $\frac{15}{35}$ =

10) $\frac{13}{26}$ =

11) $\frac{11}{55}$ =

12) $\frac{9}{21}$ =

13) $\frac{16}{26}$ =

14) $\frac{20}{32}$ =

15) $\frac{18}{24}$ =

16) $\frac{21}{27}$ =

17) $\frac{4}{32}$ =

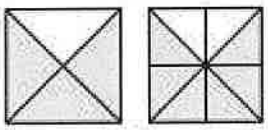
18) $\frac{25}{40}$ =

Name _____

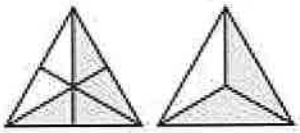
Rising 5th Grade Math Packet

Equivalent Fractions

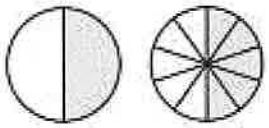
Fill in the missing fraction parts.

a. 

$\frac{3}{4} = \frac{\quad}{8}$

b. 

$\frac{4}{6} = \frac{\quad}{3}$

c. 

$\frac{1}{2} = \frac{\quad}{10}$

d. $\frac{6}{12} = \frac{\quad}{6}$

e. $\frac{1}{3} = \frac{\quad}{6}$

f. $\frac{1}{6} = \frac{\quad}{12}$

g. $\frac{5}{10} = \frac{\quad}{6}$

h. $\frac{2}{3} = \frac{\quad}{9}$

i. $\frac{2}{4} = \frac{\quad}{6}$

j. $\frac{1}{4} = \frac{\quad}{12}$

k. $\frac{6}{9} = \frac{\quad}{3}$

l. $\frac{2}{5} = \frac{\quad}{10}$

m. $\frac{6}{8} = \frac{\quad}{12}$

n. $\frac{5}{7} = \frac{\quad}{14}$

o. $\frac{14}{16} = \frac{\quad}{8}$

Name _____

Rising 5th Grade Math Packet

Adding Mixed Numbers

with like Denominator, Requires Simplifying

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

$3\frac{3}{8} + 2\frac{1}{8}$ — same

$\frac{\quad}{8}$

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

$\frac{4}{8}$

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

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

Add the fractions and simplify the answers.

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

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

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

d. $3\frac{2}{8} + 6\frac{4}{8}$

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

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

g. $1\frac{3}{10} + 5\frac{5}{10}$

h. $2\frac{3}{14} + 1\frac{3}{14}$

i. $\frac{1}{6} + 4\frac{2}{6}$

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

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

l. $1\frac{3}{12} + 1\frac{3}{12}$

m. $6\frac{4}{10} + 2\frac{2}{10}$

n. $5\frac{6}{14} + \frac{4}{14}$

o. $1\frac{2}{12} + 7\frac{4}{12}$

p. Tom's family ate $1\frac{2}{8}$ apple pies.

Susie's family ate $1\frac{4}{8}$ cherry pies.

How much pie did both families eat?

Adding mixed numbers (unlike denominators)

Grade 5 Fractions Worksheet

Find the sum.

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

2. $9\frac{9}{10} + 2\frac{3}{5} =$ _____

3. $3\frac{5}{11} + 7\frac{2}{3} =$ _____

4. $5\frac{2}{8} + 2\frac{4}{10} =$ _____

5. $8\frac{7}{9} + 5\frac{9}{11} =$ _____

6. $6\frac{2}{7} + 7\frac{1}{2} =$ _____

7. $5\frac{1}{2} + 8\frac{3}{4} =$ _____

8. $10\frac{2}{3} + 7\frac{1}{7} =$ _____

9. $10\frac{8}{10} + 9\frac{7}{12} =$ _____

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

11. $4\frac{3}{7} + 6\frac{1}{5} =$ _____

12. $1\frac{4}{6} + 9\frac{3}{8} =$ _____

13. $4\frac{8}{10} + 5\frac{2}{6} =$ _____

14. $3\frac{3}{9} + 7\frac{6}{11} =$ _____

Name _____

Rising 5th Grade Math Packet

Subtracting Mixed Numbers

with Like Denominators, Requires Simplifying

$3\frac{3}{8} - 2\frac{1}{8}$ $3\frac{3}{8} - 2\frac{1}{8} = \frac{2}{8}$ (same) $3\frac{3}{8} - 2\frac{1}{8} = 1\frac{2}{8}$ $3\frac{3}{8} - 2\frac{1}{8} = 1\frac{2}{8} = 1\frac{1}{4}$

Subtract the fractions and simplify the answers.

a. $5\frac{4}{6} - 4\frac{2}{6}$

b. $6\frac{3}{4} - 1\frac{1}{4}$

c. $9\frac{5}{10} - 5\frac{3}{10}$

d. $8\frac{6}{8} - 6\frac{4}{8}$

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

f. $2\frac{3}{12} - \frac{1}{12}$

g. $7\frac{9}{10} - 5\frac{5}{10}$

h. $2\frac{7}{14} - 2\frac{3}{14}$

i. $5\frac{4}{6} - 4\frac{2}{6}$

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

k. $4\frac{8}{9} - 3\frac{2}{9}$

l. $1\frac{6}{12} - 1\frac{3}{12}$

m. $6\frac{6}{10} - 3\frac{2}{10}$

n. $5\frac{6}{14} - \frac{4}{14}$

o. $7\frac{6}{12} - 1\frac{4}{12}$

p. Tom walked $2\frac{5}{6}$ miles on Wednesday.

He walked $1\frac{1}{6}$ miles on Thursday.

How many more miles did he walk on Wednesday?

Subtracting mixed numbers (unlike denominators)

Grade 5 Fractions Worksheet

Find the difference.

1. $16\frac{3}{9} - 10\frac{2}{5} =$ _____

2. $7\frac{5}{12} - 2\frac{1}{2} =$ _____

3. $8\frac{9}{10} - 3\frac{2}{3} =$ _____

4. $19\frac{2}{3} - 11\frac{5}{8} =$ _____

5. $13\frac{1}{8} - 12\frac{10}{12} =$ _____

6. $18\frac{1}{2} - 17\frac{2}{8} =$ _____

7. $14\frac{4}{10} - 13\frac{1}{3} =$ _____

8. $19\frac{7}{12} - 19\frac{1}{5} =$ _____

9. $20\frac{3}{4} - 18\frac{2}{3} =$ _____

10. $19\frac{7}{10} - 13\frac{4}{10} =$ _____

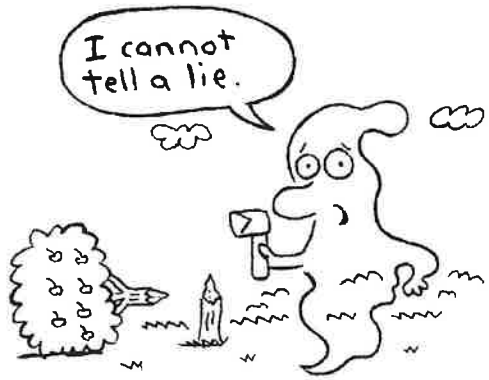
11. $17\frac{5}{6} - 1\frac{3}{5} =$ _____

12. $9\frac{1}{5} - 5\frac{4}{6} =$ _____

NAME _____ DATE _____

Riddle 19

Why couldn't the ghost tell a lie?



What To Do

Solve the addition problems below. Write your answers in simplest terms. Match each answer to a letter in the Key. Then write the letter in the space above its problem number to find the answer to the riddle.

1. $\frac{1}{2} + \frac{1}{3} =$ _____
2. $\frac{2}{5} + \frac{1}{4} =$ _____
3. $\frac{1}{6} + \frac{4}{9} =$ _____
4. $\frac{3}{10} + \frac{2}{5} =$ _____
5. $\frac{2}{7} + \frac{1}{5} =$ _____
6. $\frac{1}{3} + \frac{1}{4} =$ _____
7. $\frac{2}{3} + \frac{2}{6} =$ _____
8. $\frac{2}{9} + \frac{1}{3} =$ _____
9. $\frac{2}{14} + \frac{1}{2} =$ _____
10. $\frac{3}{8} + \frac{1}{4} =$ _____

Key

$5/9$ ..... H	$9/14$ ..... O	$17/35$ I
$3/10$ ..... E	$11/18$ ..... H	$5/6$ ..... H
2 ..... A	$4/9$ ..... K	$3/4$ ..... S
$5/8$ ..... R	1 ..... G	$13/20$ ..... M
6 ..... J	$7/10$ ..... U	$7/12$ ..... T

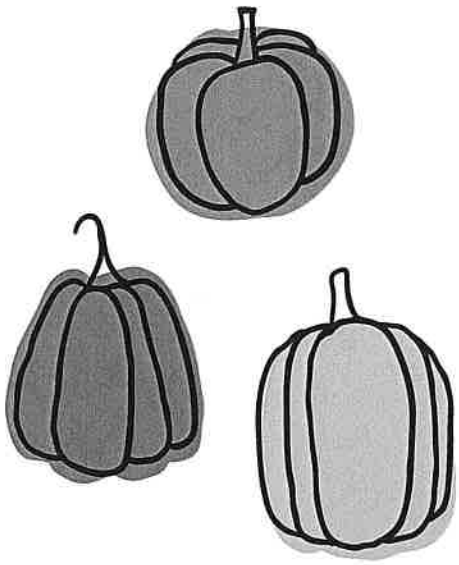
Riddle Answer

You can see right _____ _____ _____ _____ _____ _____ _____ _____ _____ _____.

6 3 10 9 4 7 8 1 5 2

Name _____ Date _____

Pumpkin Patch Sequences

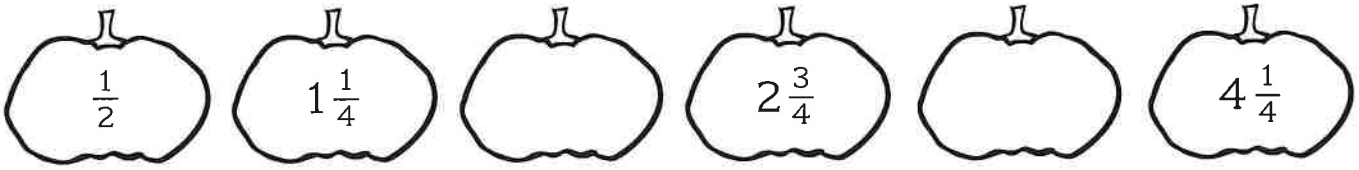


A **sequence** is a list of numbers that follows a pattern. For example, in the sequence **3, 6, 9, 12, 15**, notice how each number is 3 more than the previous number. So, the rule for this sequence is to add 3. Sequences can include many different types of numbers, such as whole numbers, fractions, and mixed numbers.

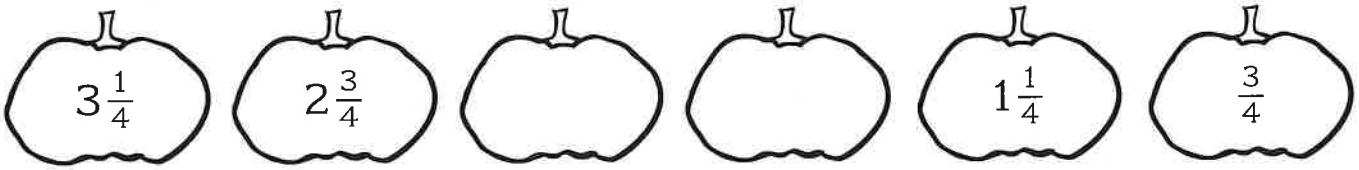
Directions: Each row of pumpkins below shows a sequence. Use the given rule to find the missing numbers. Fill in the correct missing numbers on the empty pumpkins. All numbers should be in simplest form.

---

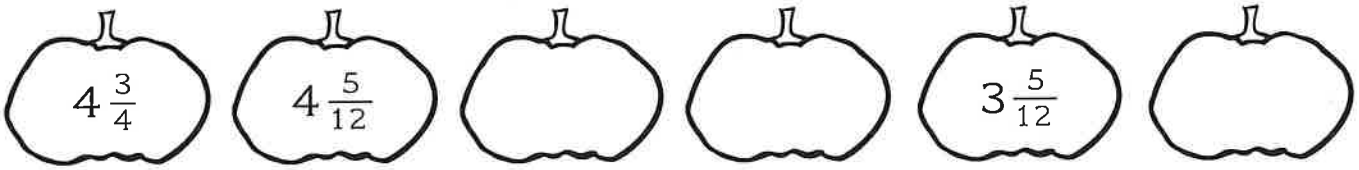
1. Rule: add $\frac{3}{4}$



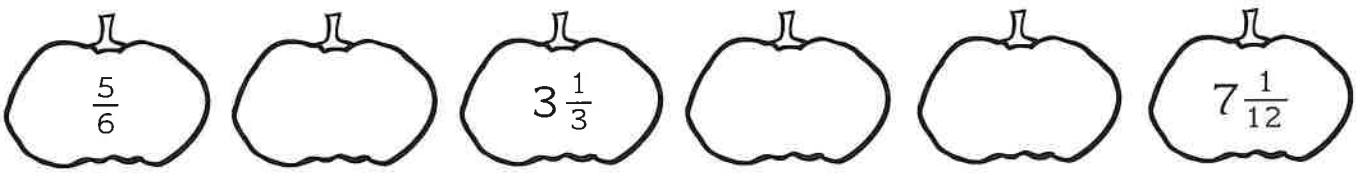
2. Rule: subtract $\frac{1}{2}$



3. Rule: subtract $\frac{1}{3}$



4. Rule: add $1\frac{1}{4}$



NAME _____ DATE _____

Riddle 36

What do you do for a blue elephant?

What To Do

Solve the division problems below. Write your answers in simplest terms. Match each answer to a letter in the Key. Then write the letter in the space above its problem number to find the answer to the riddle.

1. $\frac{1}{2} \div \frac{1}{2} =$ _____
2. $\frac{4}{6} \div \frac{1}{3} =$ _____
3. $\frac{3}{5} \div \frac{1}{6} =$ _____
4. $\frac{9}{10} \div \frac{1}{5} =$ _____
5. $\frac{3}{5} \div \frac{2}{3} =$ _____
6. $\frac{7}{10} \div \frac{2}{5} =$ _____
7. $\frac{3}{4} \div \frac{1}{4} =$ _____
8. $\frac{5}{6} \div \frac{1}{8} =$ _____
9. $\frac{7}{9} \div \frac{4}{5} =$ _____
10. $\frac{2}{7} \div \frac{3}{7} =$ _____

Key

$6\frac{2}{3}$ C	$\frac{35}{36}$ ..... E	$\frac{2}{3}$ ..... H
3 ..... U	$\frac{9}{10}$ ..... H	1 ..... E
2 ..... M	$4\frac{1}{2}$ I	$\frac{7}{10}$ ..... T
$6\frac{3}{5}$ ..... J	5 ..... S	$4\frac{3}{4}$ ..... O
$1\frac{1}{2}$ ..... A	$1\frac{3}{4}$ ..... R	$3\frac{3}{5}$ ..... P

Riddle Answer

___	___	___	___	___	___	___	___	___	___	!
8	5	1	9	6	10	4	2	7	3	

NAME _____ DATE _____

Riddle 37

What do you call a crate full of ducks?

What To Do

Solve the division problems below. Write your answers in simplest terms. Match each answer to a letter in the Key. Then write the letter in the space above its problem number to find the answer to the riddle.

1. $\frac{10}{12} \div \frac{3}{4} =$ _____
2. $\frac{14}{15} \div \frac{1}{6} =$ _____
3. $\frac{9}{20} \div \frac{7}{10} =$ _____
4. $\frac{7}{12} \div \frac{14}{25} =$ _____
5. $\frac{22}{30} \div \frac{4}{5} =$ _____
6. $\frac{30}{36} \div \frac{1}{4} =$ _____
7. $\frac{13}{15} \div \frac{2}{5} =$ _____
8. $\frac{24}{34} \div \frac{3}{8} =$ _____
9. $\frac{36}{42} \div \frac{4}{7} =$ _____
10. $\frac{27}{50} \div \frac{3}{5} =$ _____

Key

$5\frac{4}{5}$ ..... W	$1\frac{1}{9}$ ..... S	$1\frac{15}{17}$ ..... F
$\frac{11}{15}$ I	$\frac{9}{10}$ ..... A	$1\frac{31}{36}$ ..... M
$3\frac{1}{3}$ ..... E	$5\frac{3}{5}$ ..... Q	$\frac{7}{12}$ ..... D
$1\frac{1}{2}$ C	$2\frac{1}{6}$ ..... U	$\frac{9}{14}$ ..... K
$1\frac{2}{9}$ ..... P	$1\frac{1}{24}$ ..... R	$\frac{11}{12}$ ..... O

Riddle Answer

A box

_	_	_	_	_	_	_	_	_	_
5	8	2	7	10	9	3	6	4	1

K5 Learning

Fraction word problems

Grade 5 Word Problems Worksheets

Read and answer each question:

An aquarium has exhibits that feature different marine animals.

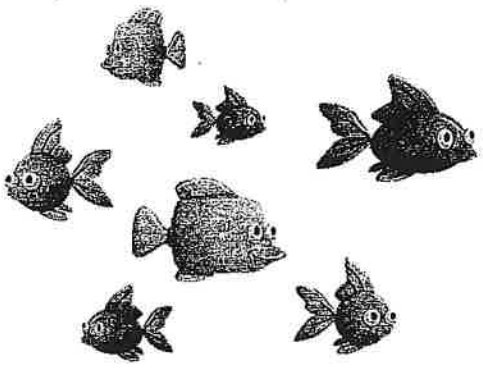
1. $\frac{5}{8}$ of the staff are male. $\frac{5}{12}$ of the staff works part time at the aquarium. What is the fraction of the staff being female?

2. The sharks are fed three times a day. During the morning feeding, $\frac{2}{15}$ tons of fish is fed. During the afternoon feeding, the weight of fish fed will be $\frac{1}{15}$ ton more than the fish fed during the morning. If the total weight of fish fed in a day is $\frac{1}{2}$ ton, how much is fed during the feeding at night?

3. A baby otter was born $\frac{3}{4}$ of a month early. At birth, its weight was $\frac{7}{8}$ kilograms, which is $\frac{9}{10}$ kilogram less than the average weight of newborn otter in the aquarium. What is the average weight of newborn otter?

4. The penguin nursery is open two times a day: $\frac{2}{3}$ hour at noon and $\frac{5}{12}$ hour in the afternoon. How much time is the penguin nursery open every day?

5. Two kinds of fish can be found in a small tank that is $5\frac{1}{7}$ feet long. A blue fish is $\frac{2}{15}$ foot long and an orange fish is $\frac{7}{10}$ foot long. How much longer is the orange fish?



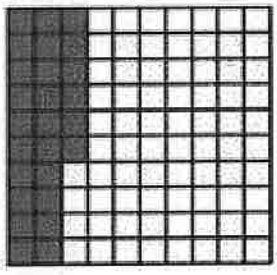
6. An octopus weighed $\frac{5}{6}$ kilogram. After two weeks, its weight was increased by $\frac{3}{10}$ kilogram. But afterwards, it lost $\frac{1}{5}$ kilogram in weight as it was sick. What is its current weight?

Name _____

Decimals: Hundredths and Tenths

Write the decimal and the fraction of each shaded part.

a.

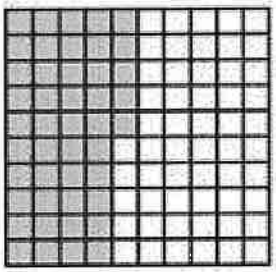


_____

b.

_____

c.

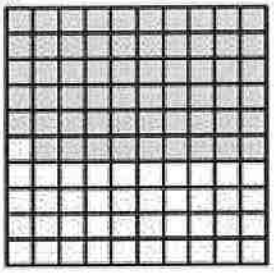


_____

d.

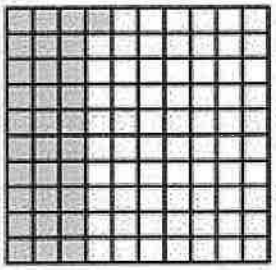
_____

e.



_____

f.

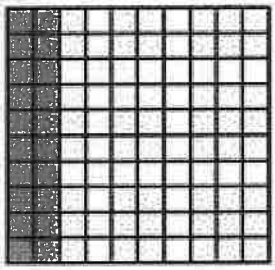


_____

g.

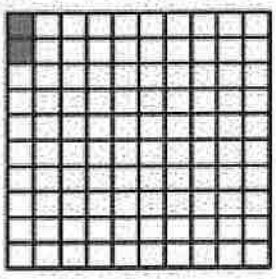
_____

h.



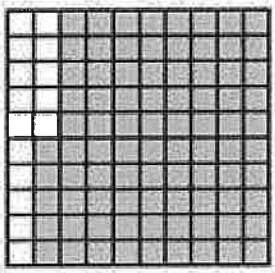
_____

i.



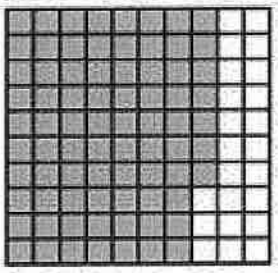
_____

j.



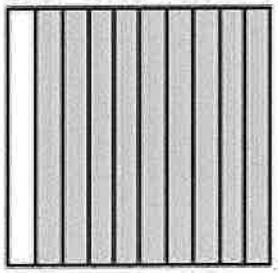
_____

k.



_____

l.



_____

Lesson 2

Key Idea

You can follow these steps to write any decimal as a fraction.

Step 1: Identify the place value of the last digit.

thousands	hundreds	tens	ones	.	tenths	hundredths	thousandths
			0	.	7	8	2

Last digit = thousandths = $\frac{1}{1{,}000}$

Step 2: Write the decimal digits as the numerator. Write the place value of the last digit as the denominator.

$0.782 = \frac{782}{1{,}000}$ ← numerator ← denominator

Standard form: 0.782

Fraction form: $\frac{782}{1{,}000}$

Word form: seven hundred eighty-two thousandths

Try This

Write each decimal as a fraction, and write the name of the decimal in word form. The first one is done for you.

1. 0.244 $\frac{244}{1{,}000}$; two hundred forty-four thousandths

2. 0.65 _____; _____

3. 0.003 _____; _____

4. 0.8 _____; _____

5. 0.045 _____; _____

6. 0.781 _____; _____

Practice

Complete the missing parts of the chart below.

	Decimal	Fraction	Word Form
7.	0.042	$\frac{42}{1,000}$	_____
8.		$\frac{12}{100}$	twelve hundredths
9.	0.007		_____
10.			fifteen thousandths
11.		$\frac{9}{10}$	_____
12.			three hundred four thousandths
13.	0.061		_____
14.			forty-seven hundredths
15.		$\frac{508}{1,000}$	_____

Reflect

How do you know what denominator to use when you write a decimal as a fraction?

_____

_____

_____

Adding decimals in columns

Grade 5 Decimals Worksheet

Find the sum.

1. 6.048 + 8.854 = _____

2. 35.38 + 59.94 = _____

3. 81.88 + 81.66 = _____

4. 31.01 + 46.60 = _____

5. 32.91 + 34.08 = _____

6. 14.40 + 82.25 = _____

7. 66.00 + 11.86 = _____

8. 1.040 + 2.465 = _____

9. 61.29 + 71.24 = _____

10. 4.461 + 2.311 = _____

11. 93.88 + 77.49 = _____

12. 8.763 + 2.832 = _____

13. 2.902 + 4.633 = _____

14. 2.400 + 8.391 = _____

15. 7.518 + 6.213 = _____

Subtracting decimals in columns

Grade 5 Fractions Worksheet

Find the difference.

1. 0.865 − 0.494 = _____

2. 7.55 − 5.70 = _____

3. 0.975 − 0.742 = _____

4. 8.41 − 0.20 = _____

5. 0.899 − 0.110 = _____

6. 0.856 − 0.585 = _____

7. 2.07 − 1.22 = _____

8. 0.996 − 0.973 = _____

9. 0.825 − 0.062 = _____

10. 5.26 − 3.04 = _____

11. 0.737 − 0.285 = _____

12. 0.350 − 0.028 = _____

13. 0.347 − 0.265 = _____

14. 3.76 − 0.53 = _____

15. 0.481 − 0.448 = _____

Multiplying decimals in columns

Grade 5 Decimals Worksheet

Find the product.

1. 76.2×0.41

2. 4.29×7.3

3. 34.4×0.02

4. 4.56×5.6

5. 6.86×6.9

6. 94.2×0.53

Long division with decimals

Grade 5 Decimals Worksheet

Find the quotient. Round to 3 digits if necessary.

1. $0.7\overline{)792}$

2. $0.03\overline{)0.35}$

3. $0.5\overline{)63}$

4. $0.05\overline{)0.20}$

5. $0.06\overline{)62}$

6. $0.03\overline{)77.4}$

7. $0.7\overline{)4.4}$

8. $0.4\overline{)5.1}$

9. $0.08\overline{)50}$

Decimals: Shopping for Easter Treats

It's Spring! That means it's time to shop for Easter treats. Let's find out what you can buy.
Please look at the example below then complete the problems that follow.
Be sure to show your work. Happy shopping!

Example: You have $5.00 to spend at the store. You buy 1 pound of jelly beans for $3.69. With the money you have left, how many marshmallow chicks could you buy? Each chick costs $0.25.

step 1.

$5.00
- $3.69
$1.31

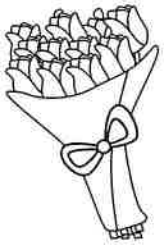
step 2.

$$0.25\overline{)1.31.00} = 5.24$$

-125
60
-50
100
-100
0

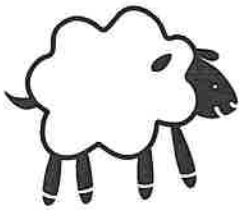
5 chicks

$0.25



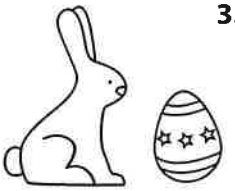
1. You have $20.00 to spend on an Easter gift. You buy 1 dozen tulips for $15.35. With the money you have left, how many chocolate bunnies could you buy? Each bunny costs $1.25.

$1.25

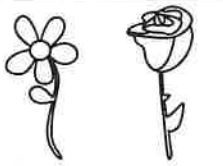


2. You have $10.50 to spend at the toy store. You buy 1 stuffed lamb for $7.26. With the money you have left, how many bags of jelly beans could you buy? Each bag costs $0.81.

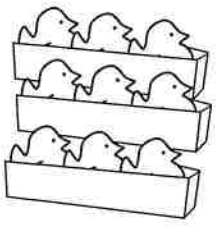
$0.81



3. You have $6.44 to spend on Easter sweets. You buy 1 chocolate bunny for $2.19 and 1 chocolate egg for $1.83. With the money left, which flower could you buy? The daisy costs $2.35 and the rose costs $2.55.



$2.35 $2.55



4. You have $11.35 to buy treats for you and a friend. You buy 3 packs of marshmallow chicks for $1.45 each. Then you buy 2 cupcakes for $2.29 each. Which **two** items below could you afford to buy with your change?

$1.88

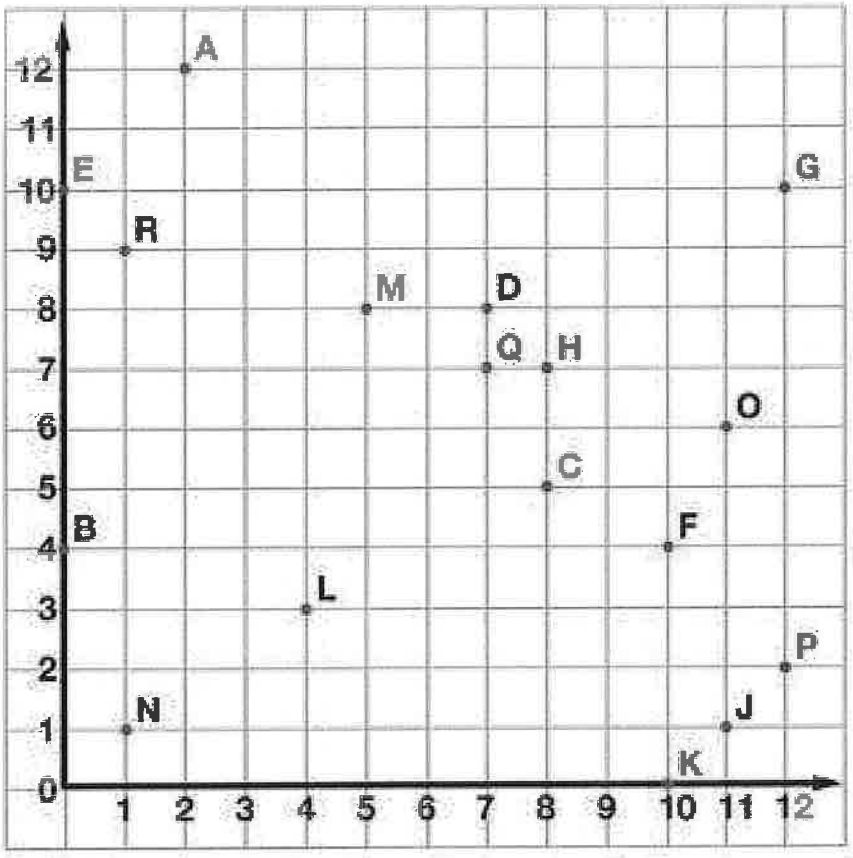
$1.05

$1.37

Name _____

Rising 5th Grade Math Packet

Ordered Pairs



Tell what point is located at each ordered pair.

1. (5,8) _____
2. (12,2) _____
3. (8,7) _____
4. (12,10) _____
5. (7,7) _____
6. (0,10) _____

Write the ordered pair for each given point.

7. N _____
8. L _____
9. J _____
10. A _____
11. B _____
12. E _____

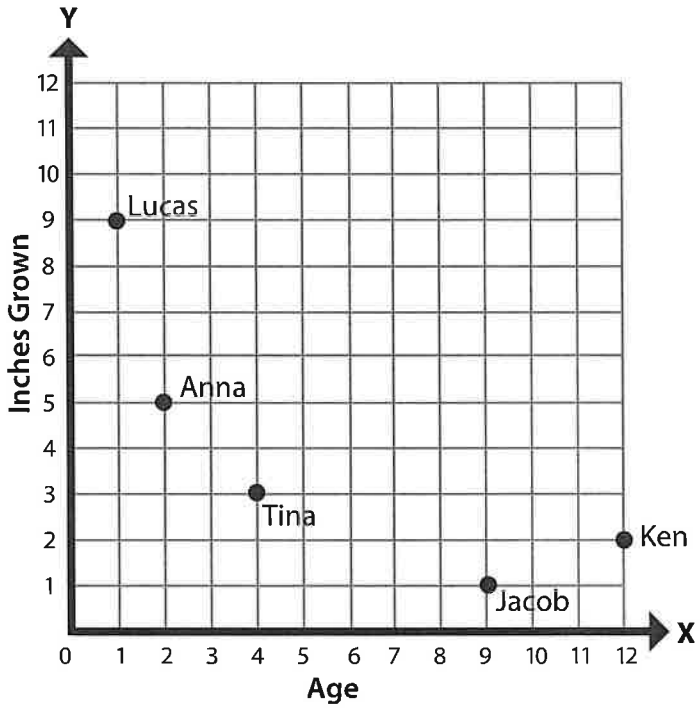
Plot the following points on the coordinate grid.

13. S (6,11)
14. T (3,5)
15. U (9,12)

Name: _____ Date: _____

Coordinate Plane Word Problems

Dr. Rios has collected data about her patients' growth. The points show the age and the number of inches grown since each person's last birthday.



1. Who has grown the most since their last birthday?

_____

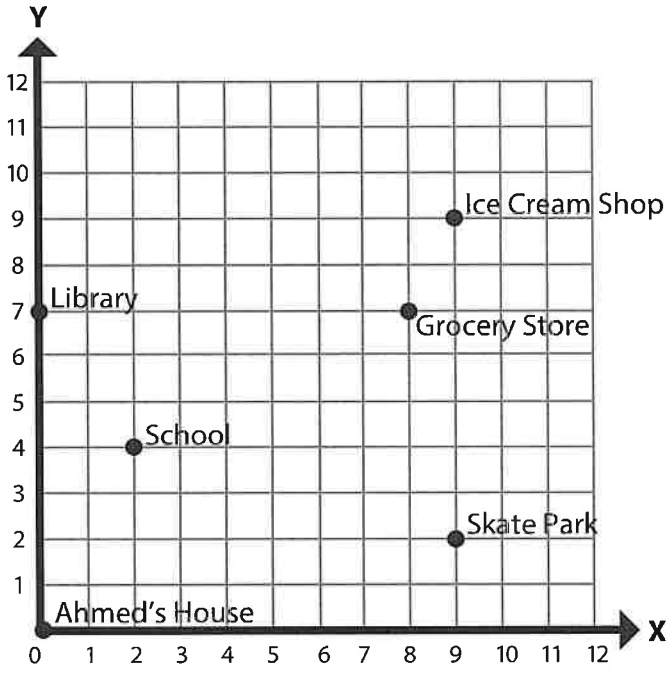
2. What is the total number of inches grown?

_____

3. How many more inches did Tina grow than Jacob?

_____

Ahmed wanted to make a map of his neighborhood, so he graphed the locations of several places he likes to visit.



1. There is a video game store halfway between the library and the grocery store. At what coordinates should Ahmed graph the video game store?

_____

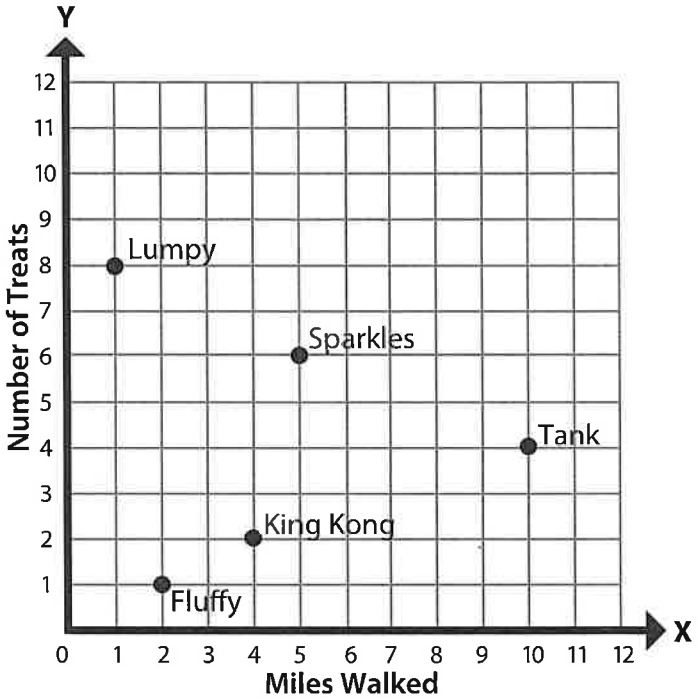
2. What is the farthest place from Ahmed's house?

_____

Name: _____ Date: _____

Coordinate Plane Word Problems

Paloma is starting a dog walking business, so she has to keep track of all the dogs she walks. The points show how many miles each dog walked and how many treats they ate on their walk.



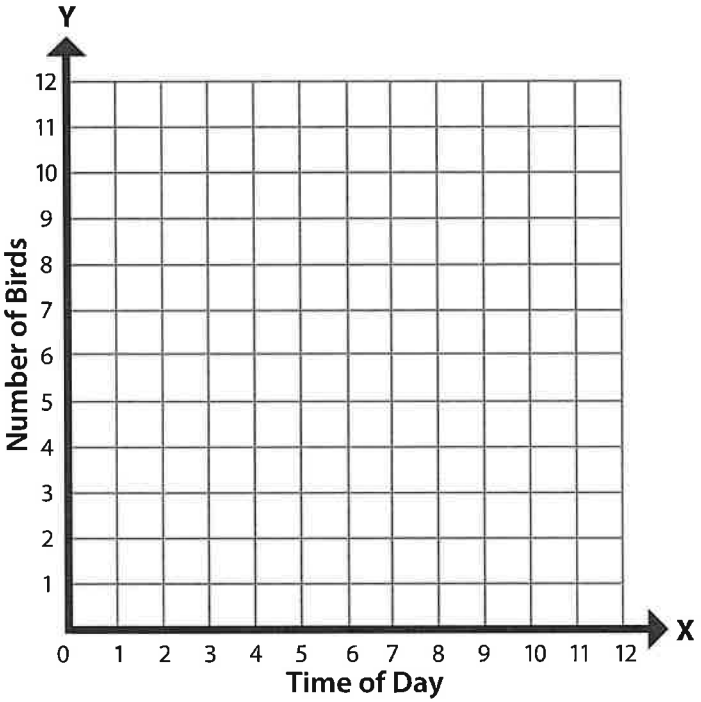
1. Paloma walked Mr. Snuffles today. He walked 2 miles farther than King Kong, and he ate 3 treats fewer than Lumpy. Plot Mr. Snuffles' walk on the coordinate plane.

_____

2. How many treats did all the dogs eat in total?

_____

Leroy is on a camping trip and he is recording information about the different birds he sees. Each ordered pair shows the number of birds he has seen and the time of day he spotted them.



1. Plot each point on the coordinate plane.
   Blackbirds (8, 3)
   Kestrels (11, 6)
   Woodpeckers (7, 2)
   Osprey (12, 1)

2. An hour after he spotted the blackbirds, Leroy saw four times as many swallows as he did ospreys. What ordered pair would represent the swallows on his coordinate plane?

Name _____

Area and Perimeter of Rectangles

Find the area and perimeter of each rectangle.

a. 12 cm

5 cm

perimeter = _____

area = _____

b. 9 m

3 m

perimeter = _____

area = _____

c. 11 km

6 km

perimeter = _____

area = _____

d. 12 cm

7 cm

perimeter = _____

area = _____

e. 8 cm

4 cm

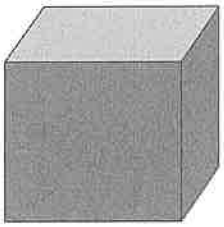
perimeter = _____

area = _____

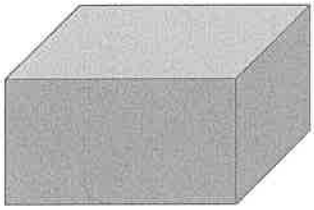
Name : _____

Prisms and Pyramids

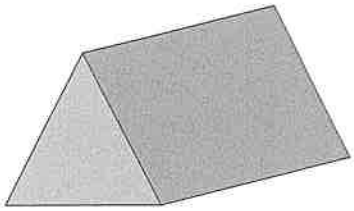
Prisms



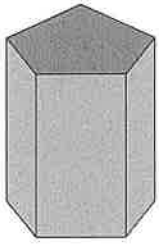
Cube



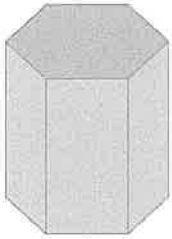
Rectangular Prism



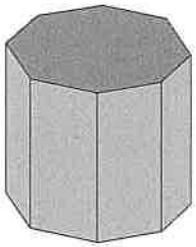
Triangular Prism



Pentagonal Prism

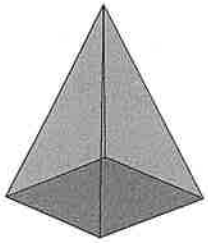


Hexagonal Prism

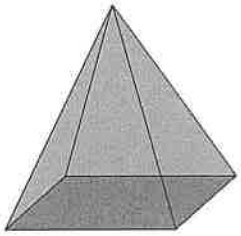


Octagonal Prism

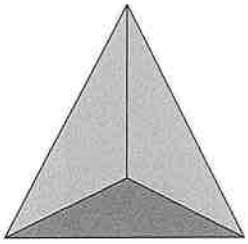
Pyramids



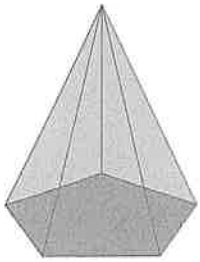
Square Pyramid



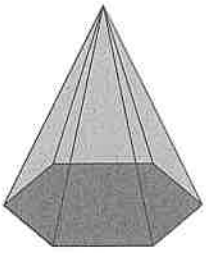
Rectangular Pyramid



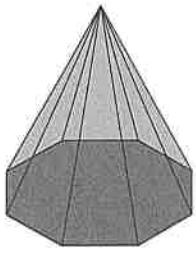
Triangular Pyramid



Pentagonal Pyramid

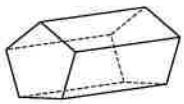


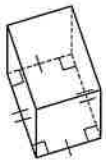
Hexagonal Pyramid

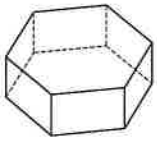


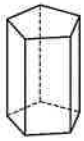
Octagonal Pyramid

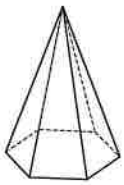
Identifying Three-Dimensional Figures (1)

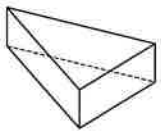
1) 

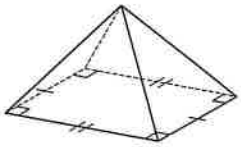
2) 

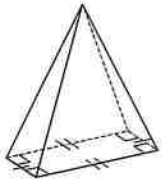
3) 

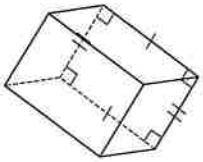
4) 

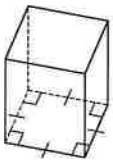
5) 

6) 

7) 

8) 

9) 

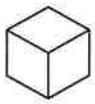
10) 

Name : _____

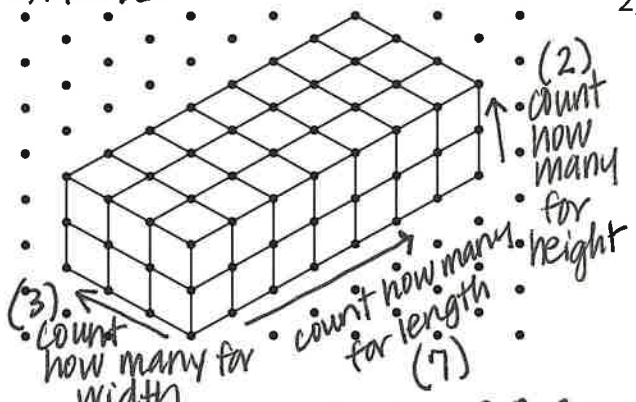
Volume - Counting Cubes

Sheet 1

Count the unit cubes and find the volume of each prism.

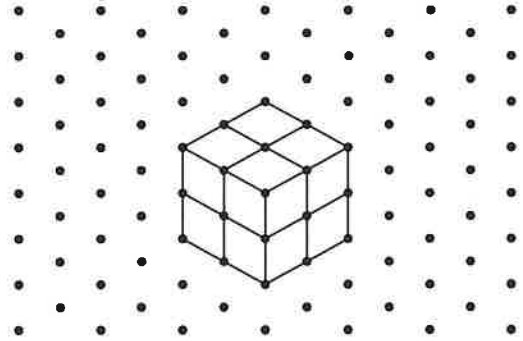
 = 1 in^3

1) EXAMPLE:



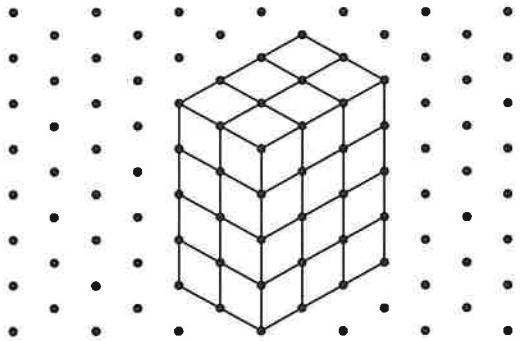
Volume = MULTIPLY #S: 3·7·2 = (42)

2)



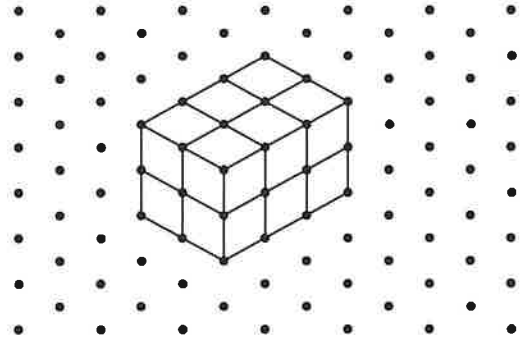
Volume = _____

3)



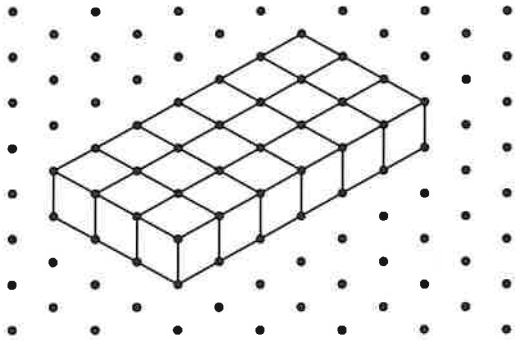
Volume = _____

4)



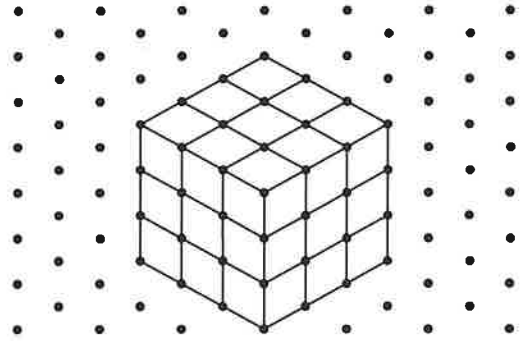
Volume = _____

5)



Volume = _____

6)



Volume = _____

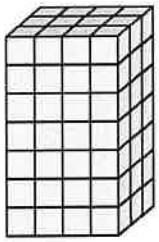
Name : _____

Counting Cubes - Rectangular Prisms

ES1

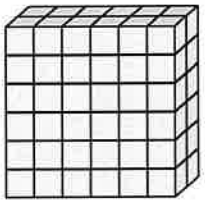
Count the unit cubes and find the volume of each rectangular prism. = 1 ft^3

1)



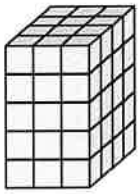
Volume = _____

2)



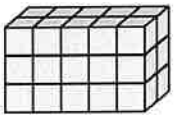
Volume = _____

3)



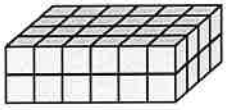
Volume = _____

4)



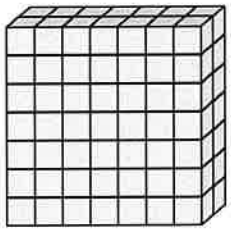
Volume = _____

5)



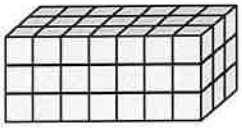
Volume = _____

6)



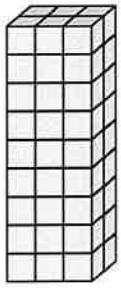
Volume = _____

7)



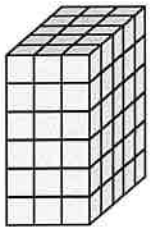
Volume = _____

8)



Volume = _____

9)



Volume = _____