

Friday Packet
Earth Science

Name _____
Date _____
Subject Science
Teacher Mr. Pham

Mr. Webster
532-0206 / dwebster@goldrushcs.org

**Independent Studies/Friday Packet for 1/13 (LP 5)
and 1/17 - 1/20 (LP - 6)**

- **Due Monday, January 23rd**
- **Use the new LP 6 Learning Log starting on Tuesday, 1/17!**

Chapter 12 Volcanoes

Section Reviews

- P. 335 1 - 5 (Resource 1 - 4)
- P. 343 1 - 5 (Resource 1 - 4)
- P. 349 1 - 5

Chapter Review

- pp . 354 - 355 1 - 20 (Resource 1 - 15)

Lab

- P. 344 Identifying Types of Volcanoes (you'll need to use Table 1 on p. 342)

1/12 Assignment
Earth Science

Name _____
Date _____
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Chapter 12 Volcanoes

P. 353 Visualizing Main Ideas

- **Read pp. 336 - 343 before completing assignment**
- **Draw the concept map bubbles, words, and lines as you see at the bottom of p. 353**
- **Fill in the bubbles with the appropriate word or phrase**

You will have to refer back to your reading as you complete the assignment

Assignment : Create an Original Fictional Novel Proposal Packet

*Please do all work on college ruled binder paper with your name, the date, and subject clearly written in the upper right hand corner on each page. Computer work is allowed if formatting is followed. All assigned work is due when class is scheduled to resume on 1/23. **Please save this paper and use it as the cover page for your work package when you turn it in.***

By the end of Tuesday - January 17, 2017

Write a **general plot description** of the story you would write. Nothing specific is required but if you choose to do so you may.

Minimum of 1 side of a page handwritten single spaced or 1 side of a page typed double spaced, 12 pt New Times Roman Font with 1 inch margins.

By the end of Wednesday - January 18, 2017

List and **describe major character(s)** for your story. Consider including information like physical attributes or appearance, background or history, relations to other characters, abilities and/or personality traits that will be relevant to the plot. When in doubt, more is better than less when detailing characters and ask whether or not the character is "alive" with the information you included. More can be added later of course but the point of this page is to sell your story through your characters alone, so make them compelling and interesting.

Minimum of 1 character to be detailed and 1 side of a page handwritten single spaced or 1 side of a page typed double spaced, 12 pt New Times Roman Font with 1 inch margins.

By the end of Thursday - January 19, 2017

Discuss the setting(s) for your story. Remember that the world you will create is completely yours and therefore is subjected to rules, laws, and realities of your choosing. While this world may resemble the one in reality I encourage you to use your imagination to make your fictional world just as interesting as your characters. Start by picturing your characters in an environment that is logical or makes sense to the character. Describe that world in detail. Be creative.

Minimum of 1 setting to be detailed and 1 side of a page handwritten single spaced or 1 side of a page typed double spaced, 12 pt New Times Roman Font with 1 inch margins.

By the end of Friday - January 20, 2017

Plan the conflicts in your story. Your character(s) will at some point be challenged by something. That challenge could be nature, society, another character, or even the character himself or herself. Give as much details about the conflicts in your story as possible. You could plan one major conflict that will be resolved by the end of your story in addition to multiple minor conflicts as well. Use your knowledge of other fiction you've experienced to imitate and create unique circumstances for your characters that is appropriate to the setting(s) you've placed them in.

Minimum of 1 major conflict to be detailed and 1 side of a page handwritten single spaced or 1 side of a page typed double spaced, 12 pt New Times Roman Font with 1 inch margins.

REVIEW: Rounding Whole Numbers

Name _____

Key Concept and Vocabulary

round up

↓


Decision digit is 5, 6, 7, 8, or 9.

round down

↓

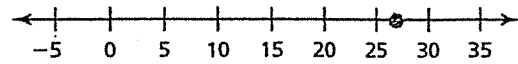
Decision digit is 0, 1, 2, 3, or 4.

Rounding



Visual Model

To round to the *nearest ten*, choose the closest multiple of ten.



27 is closer to 30 than to 20. So, 27 rounds to 30.

Skill Examples

- To the *nearest ten*:
113 rounds to 110.
- To the *nearest hundred*:
182 rounds to 200.
- To the *nearest thousand*:
4506 rounds to 5000.

Application Example

- An appraiser adds the areas of the rooms in a house and gets 1548 square feet. Estimate this to the nearest ten square feet.

To the *nearest ten*: 1548 rounds to 1550.

∴ The house has about 1550 square feet.



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Check your answers at BigIdeasMath.com.

Round to the nearest ten. (The symbol \approx means "is approximately equal to.")

5. $57 \approx$ _____ 6. $142 \approx$ _____ 7. $345 \approx$ _____ 8. $189 \approx$ _____

Round to the nearest hundred.

9. $57 \approx$ _____ 10. $142 \approx$ _____ 11. $345 \approx$ _____ 12. $189 \approx$ _____

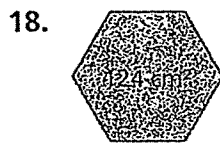
Round to the nearest thousand.

13. $23,450 \approx$ _____ 14. $3623 \approx$ _____ 15. $872 \approx$ _____ 16. $45,214 \approx$ _____

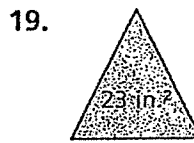
Round the area of the figure to the nearest ten.



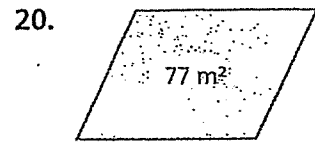
Area \approx _____



Area \approx _____



Area \approx _____



Area \approx _____

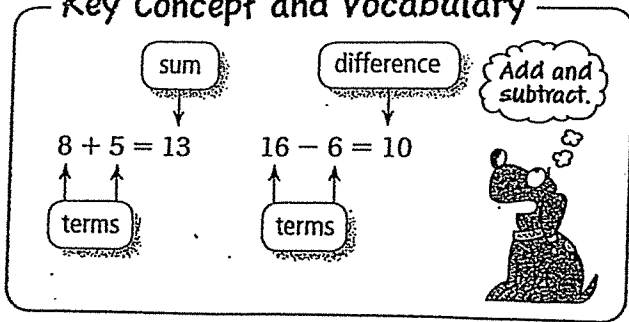
21. **NATIONAL DEBT** In February of 2009, the national debt for the United States was \$10,770,358,064,879. Round this debt to the nearest billion dollars. _____

22. **POPULATION OF TEXAS** To the nearest thousand, the population of Texas was estimated to be 24,327,000 in 2008. Describe the actual population that Texas could have had in 2008.

REVIEW: Adding and Subtracting Whole Numbers

Name _____

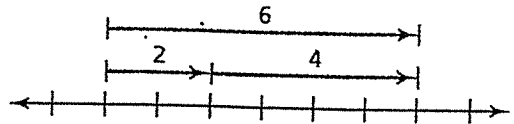
Key Concept and Vocabulary



Visual Model

To add on a number line, move to the *right*.

$$2 + 4 = 6$$



To subtract on a number line, move to the *left*.

Skill Examples

1. $12 + 17 = 29$
2. $23 + 0 = 23$
3. $114 + 5 + 18 = 137$
4. $9 - 4 = 5$
5. $16 - 0 = 16$
6. $139 - 39 = 100$

Application Example

7. You spent \$3 for socks, \$28 for gym shoes, \$18 for a T-shirt, and \$15 for shorts. How much did you spend for your gym outfit?

$$3 + 28 + 18 + 15 = 64$$

∴ You spent \$64.



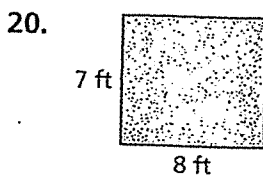
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Check your answers at BigIdeasMath.com.

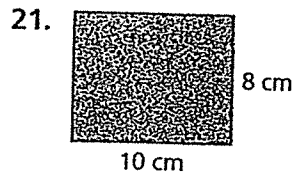
Find the sum or difference.

8. $21 + 7 =$ _____
9. $94 + 0 =$ _____
10. $104 + 142 =$ _____
11. $1147 + 234 =$ _____
12. $19 - 18 =$ _____
13. $39 - 29 =$ _____
14. $72 - 49 =$ _____
15. $1035 - 246 =$ _____
16. $941 - 0 =$ _____
17. $12 + 5 + 8 =$ _____
18. $31 + 1 + 1 =$ _____
19. $123 + 41 + 18 =$ _____

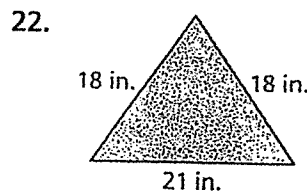
Find the perimeter of the rectangle or triangle.



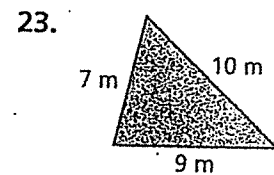
Perimeter = _____



Perimeter = _____



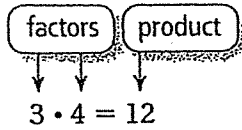
Perimeter = _____



Perimeter = _____

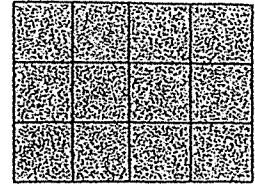
24. **RUNNING** You ran 2 miles on Monday, 2 miles on Tuesday, 3 miles on Wednesday, 2 miles on Thursday, and 4 miles on Friday. How many miles did you run during the week? _____
25. **PLANNING A SHOPPING TRIP** You have \$27 and take another \$32 from your savings account. How much will you have left after buying a shirt for \$18 and a pair of jeans for \$29. Explain.

Key Concept and Vocabulary



Visual Model

A rectangle that is 3 units by 4 units has an area of 12 square units.



Area = 3×4
= 12 square units

Skill Examples

1. $6 \cdot 7 = 42$
2. $0 \times 5 = 0$
3. $8 \cdot 1 = 8$
4. $(9)(12) = 108$
5. $15 \times 20 = 300$

Application Example

6. Find the area of a rectangular lot that is 20 yards wide and 35 yards long.

Area = (length)(width)
= $35 \cdot 20$
= 700 yd^2

∴ The area is 700 square yards.



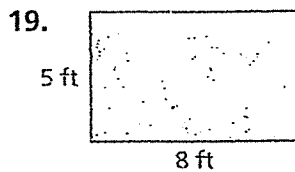
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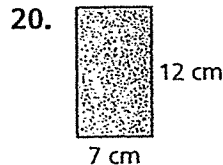
Find the product.

- | | | | |
|---------------------------|---------------------------|----------------------------------|----------------------------------|
| 7. $8 \cdot 12 =$ _____ | 8. $15 \times 12 =$ _____ | 9. $(13)(20) =$ _____ | 10. $2 \cdot 240 =$ _____ |
| 11. $13 \times 6 =$ _____ | 12. $(11)(8) =$ _____ | 13. $19 \cdot 21 =$ _____ | 14. $30 \times 100 =$ _____ |
| 15. $0 \cdot 114 =$ _____ | 16. $26 \times 1 =$ _____ | 17. $4 \cdot 10 \cdot 8 =$ _____ | 18. $9 \cdot 14 \cdot 2 =$ _____ |

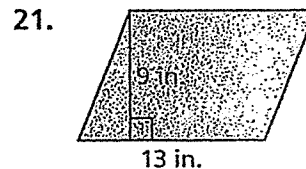
Find the area of the rectangle or parallelogram.



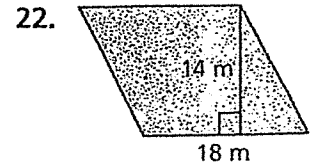
Area = _____



Area = _____



Area = _____

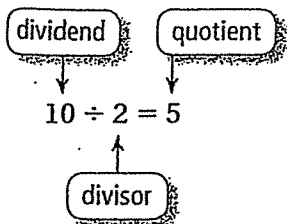


Area = _____

23. **SCHOOL BUS** Each school bus can carry a maximum of 50 passengers. What is the maximum number of passengers that 12 school buses can carry? _____

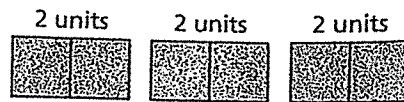
24. **PAPER CUPS** Each package contains 65 paper cups. You buy four packages. Do you have enough paper cups for 250 people to each have one? How do you know?

Key Concept and Vocabulary



Visual Model

If you divide 6 units into 3 equal parts, each part will have 2 units.



$$6 \div 3 = 2$$

Skill Examples

1. $42 \div 6 = 7$

2. $\frac{65}{13} = 65 \div 13 = 5$

3. $195 \div 15 = 13$

$$\begin{array}{r} 15 \overline{)195} \\ \underline{15} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

Application Example

4. Six people find a treasure worth \$12,300. If each person receives an equal share, how much does each person get?

$$\$12,300 \div 6 = \$2050$$

- ∴ Each person gets \$2050.



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Check your answers at BigIdeasMath.com.

Find the quotient.

5. $56 \div 8 = \underline{\hspace{2cm}}$

6. $99 \div 11 = \underline{\hspace{2cm}}$

7. $132 \div 6 = \underline{\hspace{2cm}}$

8. $80 \div 5 = \underline{\hspace{2cm}}$

9. $\frac{88}{4} = \underline{\hspace{2cm}}$

10. $\frac{156}{3} = \underline{\hspace{2cm}}$

11. $\frac{430}{86} = \underline{\hspace{2cm}}$

12. $\frac{3082}{23} = \underline{\hspace{2cm}}$

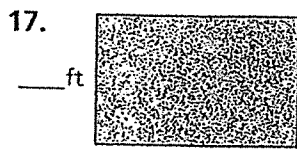
13. $18 \overline{)216}$

14. $12 \overline{)960}$

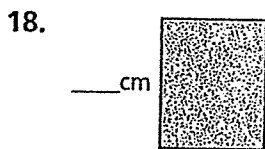
15. $9 \overline{)567}$

16. $19 \overline{)323}$

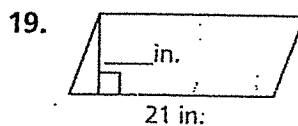
Find the height of the rectangle or parallelogram.



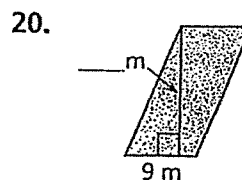
Area = 40 ft^2



Area = 120 cm^2



Area = 168 in.^2



Area = 144 m^2

21. **PARTY PUNCH** A punch bowl contains 6 quarts of punch. There are 32 fluid ounces in a quart. How many 4-fluid ounce cups will the punch bowl serve? _____

22. **SHARING THE PROFIT** You and three friends start a small business. Your total income is \$820 and your total expenses are \$360. You share the profit evenly. How much do each of you get? Explain. _____

REVIEW: Factors of Whole Numbers

Name _____

Key Concept and Vocabulary

Factors of 12: 1, 2, 3, 4, **6**, 12

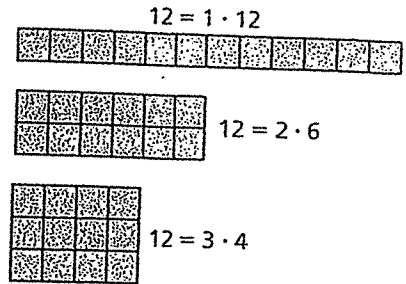
Factors of 18: 1, 2, 3, **6**, 9, 18

Greatest Common Factor



Visual Model

There are 3 ways to factor 12 into 2 whole numbers. Each way is represented by a rectangle.



Skill Examples

- Factors of 1: 1
- Factors of 8: 1, 2, 4, 8
- Factors of 7: 1, 7
- Factors of 30: 1, 2, 3, 5, 6, 10, 15, 30
- Factors of 33: 1, 3, 11, 33

Application Example

- What is the greatest number of people with whom 20 pennies and 24 dimes can be shared so that each person gets the same share?

The greatest common factor (GCF) of 20 and 24 is 4.

∴ The greatest number is 4 people.



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Check your answers at BigIdeasMath.com.

List all factors of both numbers. Then circle the greatest common factor.

- Factors of 6: _____
Factors of 9: _____
- Factors of 8: _____
Factors of 16: _____
- Factors of 20: _____
Factors of 30: _____
- Factors of 75: _____
Factors of 100: _____
- Factors of 34: _____
Factors of 51: _____
- Factors of 10: _____
Factors of 18: _____

- Sketch all possible ways that 16 small squares can be arranged to form a rectangle.

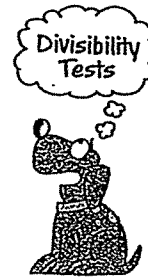
- SHARING COINS** What is the greatest number of people with whom 30 nickels and 36 dimes can be shared so that each person gets the same share? _____

- DECK OF CARDS** A deck of cards has 52 cards. The deck can be divided into 4 piles of exactly 13 cards each. Describe all the other ways the deck can be divided into equal piles.

Key Concept and Vocabulary

A whole number is divisible by

- 2: if its last digit is 0, 2, 4, 6, or 8.
- 3: if the sum of the digits is divisible by 3.
- 4: if the number formed by the last two digits is divisible by 4.
- 5: if its last digit is 0 or 5.
- 6: if it is divisible by 2 and by 3.
- 9: if the sum of its digits is divisible by 9.



Skill Examples

1. 147 is divisible by 3 because $1 + 4 + 7 = 12$ is divisible by 3.
2. 524 is divisible by 4 because 24 is divisible by 4.
3. 243 is divisible by 9 because $2 + 4 + 3 = 9$ is divisible by 9.

Application Example

4. There are 9 students in your class. Can you divide 839 stamps evenly, so that each student in your class gets the same number of stamps?

The sum of the digits of 839 is $8 + 3 + 9 = 20$. 20 is not divisible by 9.

∴ No, you cannot divide the stamps evenly.



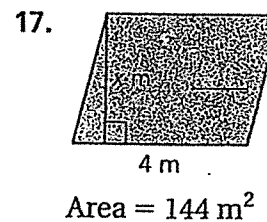
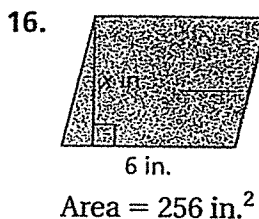
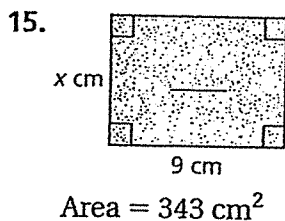
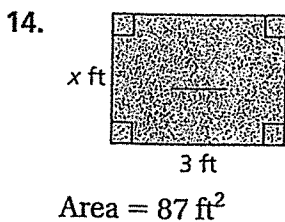
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Check your answers at BigIdeasMath.com.

Use a divisibility test to answer the question.

5. Is 146 divisible by 2? _____
6. Is 153 divisible by 3? _____
7. Is 378 divisible by 4? _____
8. Is 1255 divisible by 5? _____
9. Is 147 divisible by 6? _____
10. Is 333 divisible by 6? _____
11. Is 2769 divisible by 3? _____
12. Is 5034 divisible by 3? _____
13. Is 145 divisible by 15? _____

Decide whether x is a whole number. (Figures are not drawn to scale.)



18. **SHARING TIME** There are 360 minutes of monthly cell phone minutes for 4 people in a family. Can each person get the same number of minutes per month? If so, how many?

19. **CALENDAR** Assume that there are 365 days in a year. Describe the possible number of days in a week so that there is an exact number of weeks in a year. (Hint: 7 is not one of them.)

HEALTH

Instructor: Rob Durling

Email: rdurling@goldrushcs.org

Phone: 533-8644 X219

Independent Study Assignment: for this assignment you will be tasked with charting your daily food intake for one week. You are not being asked to alter your diet, or the amounts you eat, or how often or how many servings you eat; you only have to chart any and all intake on a daily basis. You also don't have to chart or break down vitamins, minerals, calories, carbohydrates, fats, or any supplements. The only items involved in this chart will be the actual foods. Your chart can be of your devising, just make sure it is neatly written and orderly. You can Google "daily diet chart", "daily diet plan", or "weekly diet plan", and have some good ideas on how to write out your assignment.

Along with your chart, you will want to think about such things as: do you eat the traditional three (3) meals a day; how often do you snack; how would you rate the healthiness of your diet on a scale of 1 to 10; do you typically eat meals at the same time each day; do you have any dietary limitations due to food allergies or other considerations? You are not required to write down these answers; however, we will go over your diet charts and answer these questions when classes resume, so it is recommended that you take notes in order to be prepared.

This assignment will be due shortly after our return to the classroom. Contact the instructor if you have any further questions or concerns.