Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_\_\_\_ Due: \_\_\_\_\_\_\_\_\_\_\_

**Review Chapters 1-5 – February Break HW – Show all work!**

**Read each question. Then fill in the correct answer on the answer sheet provided by your teacher or on a sheet of paper.**

**Chapter 1: Ratios and Rates**

**1.** The ratio of cats to dogs seen by a veterinarian in one day is 2 to 5. If a vet saw 40 dogs in one day, how many cats did he see?

**A.** 5 **C.** 29

**B.** 16 **D.** 40

**2.** A car jack requires a force of 110 pounds to lift a 2,500-pound car. In simplest form, what is the ratio of the car’s weight to the force required to lift the car?

**3.** The table shows  
the cups of whole wheat flour required to make  
dog biscuits.

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of**  **Dog Biscuits** | 10 |  | 35 |
| **Cups of Whole**  **Wheat Flour** | 2 |  | ∎ |

How many cups of whole wheat flour are required to make 35 biscuits?

**4. EXTENDED RESPONSE** Cesar’s sixth-grade class sorted books in the library. The class sorted 45 books in 90 minutes.

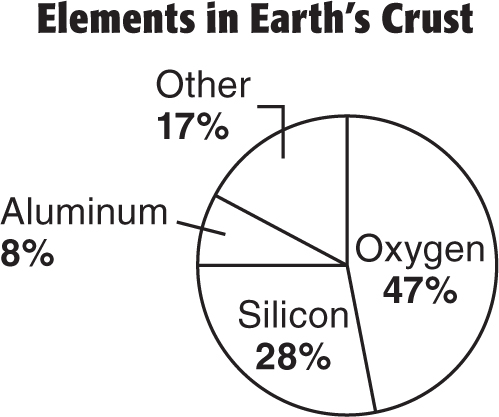
***Part A*** Write an equivalent ratio to find how long it would take to sort 120 books.

***Part B*** How many hours will it take the class to sort 120 books?

***Part C*** Suppose their rate slowed to 30 books in 90 minutes. How long would it take the class to sort the 120 books? Explain your reasoning.

**Chapter 2: Fractions, Decimals and Percents**

**5.** The graph shows the elements found in Earth’s crust. What fraction of Earth’s crust is silicon?



**F.**  **H.**

**G.**  **I.**

**6.** The fastest fish in the world is the sailfish. If a sailfish could maintain its speed, as shown in the table, how many miles could the sailfish travel in 6 hours?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Hours Traveled** | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| **Miles Traveled** | 0 | 68 | 136 | 204 | 272 | 340 | ? |

**A.** 6 miles **C.** 408 miles

**B.** 68 miles **D.** 476 miles

**7.** Carlita planted 4 flowers in 9 minutes. About how many flowers can Carlita plant in 36 minutes?

**8.** What is the ratio of people to buses?

|  |  |
| --- | --- |
| 6 buses | 150 people |

**F.** 1:25 **H.** 6:150

**G.** 25:1 **I.** 156

**Chapter 3: Compute with Multi-Digit Numbers**

**9.** A model plane is 100 times smaller than an actual plane. The length of the model is 4.8 inches. What is the actual length of the plane?

**A.** 480 feet **C.** 20 feet

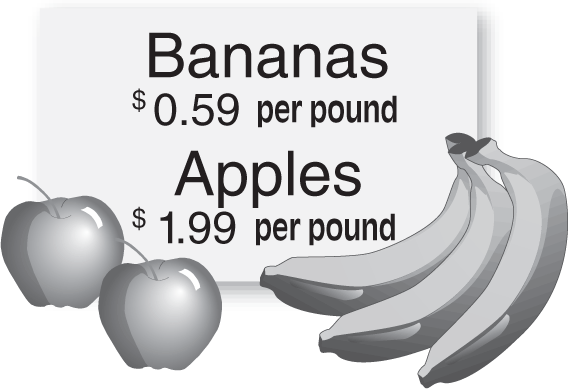
**B.** 40 feet **D.** 8 feet

**10.** Malabar Middle School is raising money for a local charity. Their goal is to raise $500 by their holiday break. If they have 10 days before their break, what is a reasonable amount that they should collect each day to reach their goal?

**F.** $5 **H.** $50

**G.** $25 **I.** $100

**11. SHORT RESPONSE** Rita bought 5.7 pounds   
of bananas and 2.8 pounds of apples. Write a multiplication expression and find the total   
cost for the fruit. Round to the nearest cent.

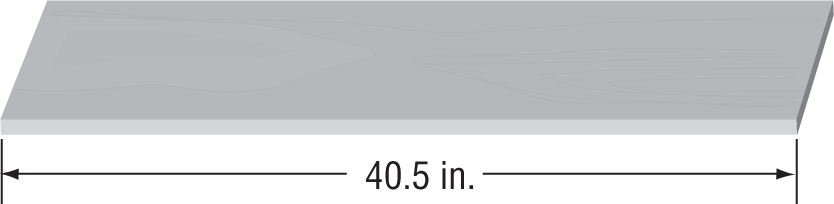


**12.** Malabar Middle School is raising money for a local charity. Their goal is to raise $500 by their holiday break. If they have 10 days before their break, what is a reasonable amount that they should collect each day to reach their goal?

**F.** $5 **H.** $50

**G.** $25 **I.** $100

**13.** Ignacio cut the board shown into 4.5 –inch pieces. How many pieces can he cut?



**A.** 6 **C.** 8

**B.** 7 **D.** 9

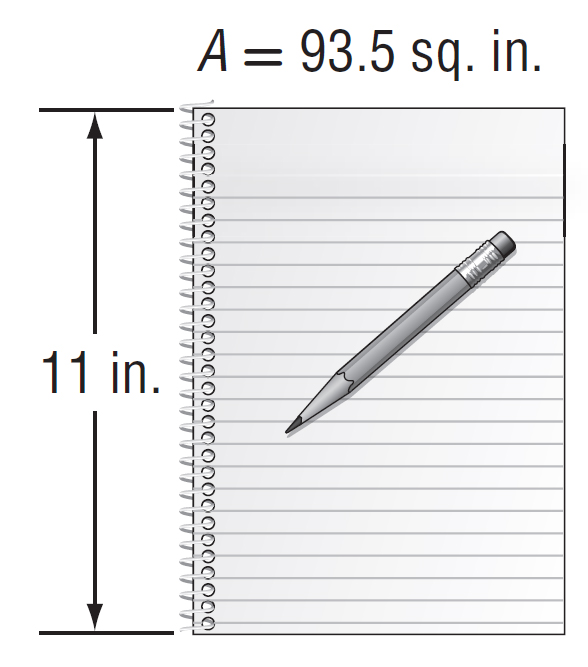
**Chapter 4: Multiply and Divide Fractions**

**14.** Albert used of a half-gallon of paint. What fraction of a gallon of paint did he use?

**A.**   **B.**  **C.**  **D.**

**15.** Courtney found the area of her notebook paper shown. What is the width of the piece of notebook paper?

**F.** 8 inches

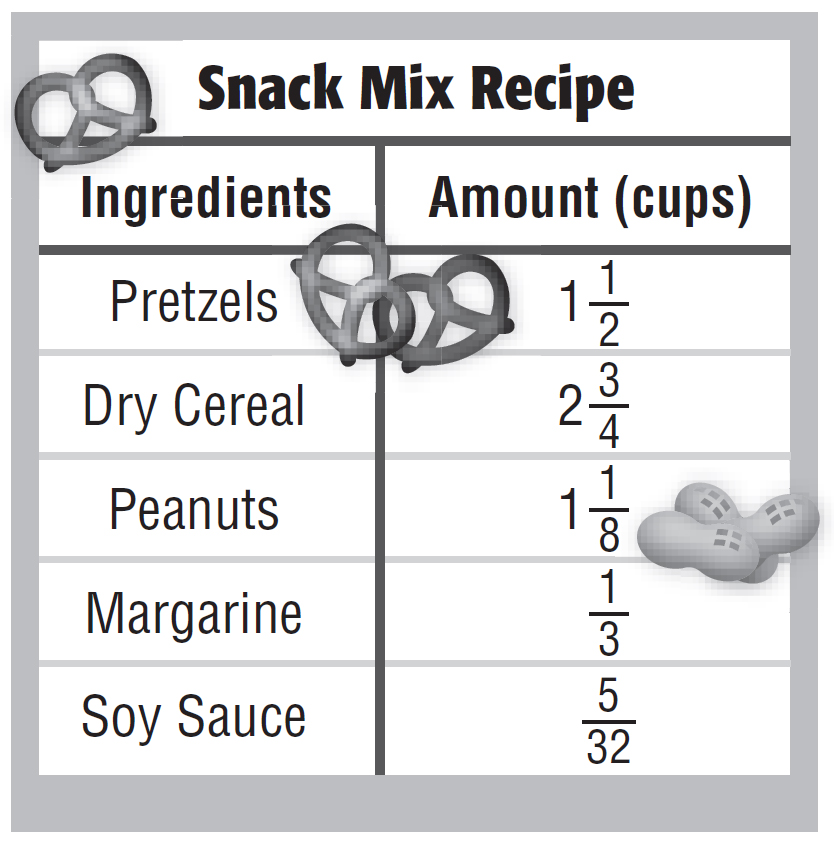


**G.** 8.5 inches

**H.** 9 inches

**I.** 9.5 inches

**16. EXTENDED RESPONSE** Rose’s recipe for snack mix is shown. The recipe serves 12 people but Rose wants to make enough for 30 people.



***Part A*** Explain how Rose can calculate the amount of each ingredient she needs to serve 30 people.

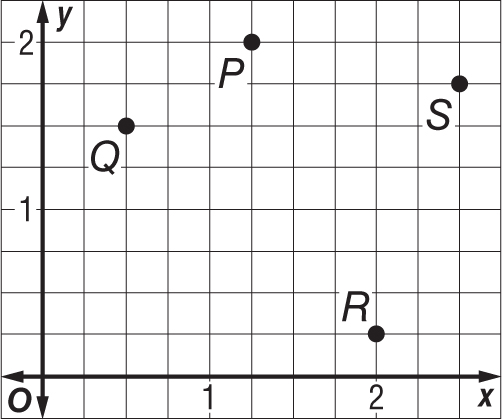
***Part B*** How much of each ingredient will Rose need?

***Part C*** How many cups of dry snack mix will there be in all? Explain your answer.

**17. SHORT RESPONSE** The table shows J.T.’s training schedule for a marathon. If the pattern continues, how many minutes will he run on Day 8?

|  |  |
| --- | --- |
| **Day** | **Running Time (min)** |
| 1 | 20 |
| 2 | 22 |
| 3 | 24 |
| 4 | 26 |

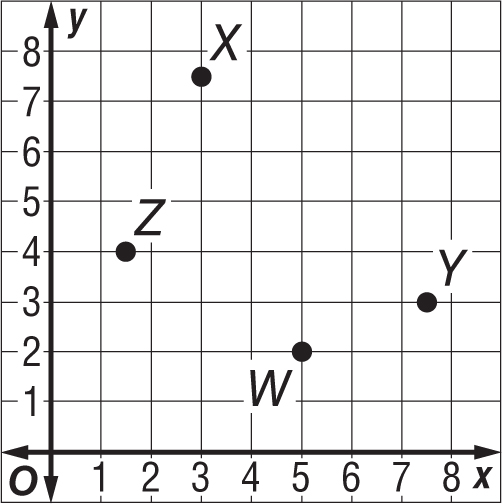
**18.** Which point **best** represents the location of the ordered pair ?



**F.** Point *P* **H.** Point *R*

**G.** Point *Q* **I.** Point *S*

**19.** Which point on the grid below corresponds to the ordered pair (5,2)?



**A.** Point *W* **C.** Point *Y*

**B.** Point *X* **D.** Point *Z*