

Name \_\_\_\_\_

1. Tim earned \$124 washing 6 cars. He earned the same amount for each car. Select all the equations that show reasonable estimates for the amount Tim earned washing each car.

- $\$200 \div 5 = \$40$   
  $\$120 \div 6 = \$20$   
  $\$100 \div 5 = \$20$   
  $\$100 \div 6 = \$10$   
  $\$200 \div 4 = \$50$

2. Mr. Moretti saves an equal amount of money each month for 8 months. He is saving to buy a boat that costs \$2,400. Draw a bar diagram. Write and solve an equation to find how much money Mr. Moretti needs to save each month to buy the boat.

3. Mrs. Brooks has 34 yards of ribbon to make wreaths. Each wreath requires 5 yards of ribbon. How many wreaths can Mrs. Brooks make? How many yards will she have left?

4. Sam has 575 photos printed. He puts an equal number of photos into each of 5 albums.

**Part A**

Write an equation to show the number of photos Sam put in each album.

**Part B**

Complete the model. How many photos did Sam put in each album?

|  |     |   |   |   |   |   |   |
|--|-----|---|---|---|---|---|---|
|  | 100 | + | □ | + | □ | = | □ |
|--|-----|---|---|---|---|---|---|

|   |   |  |  |
|---|---|--|--|
| 5 | $\begin{array}{r} 575 \\ - \square \\ \hline \square \end{array}$ | $\begin{array}{r} 75 \\ - \square \\ \hline \square \end{array}$ | $\begin{array}{r} 25 \\ - \square \\ \hline \square \end{array}$ |
|---|---|--|--|

5. The cost of a camping trip was \$2,484. The cost was divided equally among 6 families. How much money did each family pay?

- (A) \$224  
 (B) \$414  
 (C) \$480  
 (D) \$481

6. Linda likes origami. She plans to make 8 origami flowers each day until she has 37 flowers. Draw an array to find how many days it will take Linda to fold all of the flowers. Explain.

7. Draw lines to match the expression to the estimated quotient.

|                |           |
|----------------|-----------|
| $530 \div 9$   | About 100 |
| $1,530 \div 3$ | About 60  |
| $782 \div 8$   | About 80  |
| $475 \div 6$   | About 500 |

8. There are 4,200 beads in a box. There are 6 bags of beads in each box. If each bag has the same number of beads, how many beads are in each bag?

9. Choose Yes or No to tell if the remainder is 3.

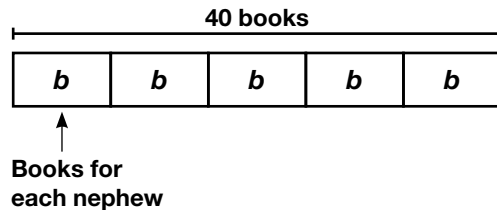
9a.  $52 \div 6 = 8$  R?       Yes    No

9b.  $351 \div 6 = 58$  R?       Yes    No

9c.  $1,348 \div 7 = 192$  R?    Yes    No

9d.  $2,699 \div 8 = 337$  R?    Yes    No

10. Mario has 40 books and 5 nephews. He gives the same number of books to each nephew. Which equation shows how to find the number,  $b$ , of books Mario gives each nephew?



- (A)  $40 + 5 = b$       (C)  $40 - 5 = b$   
 (B)  $40 \times 5 = b$       (D)  $40 \div 5 = b$

11. The distance from Columbus to Lexington is about 200 miles. Mrs. Potter's goal is to drive to Lexington in 4 hours. How many miles does she need to drive each hour to meet her goal?

12. There are 331 cars parked on 4 different floors of the parking garage. There are about the same number of cars parked on each floor. Select all the statements that are reasonable estimates for the number of cars parked on each floor.

- 40 cars, because  $331 \div 4$  is about  $160 \div 4$ .
- 80 cars, because  $331 \div 4$  is about  $320 \div 4$ .
- 40 cars, because  $331 \div 4$  is about  $360 \div 9$ .
- 100 cars, because  $331 \div 4$  is about  $300 \div 3$ .
- 60 cars, because  $331 \div 4$  is about  $360 \div 6$ .

13. Use an algorithm to find the quotient. Choose numbers from the box to complete the calculations. Use each number once.

$$\begin{array}{r}
 \square 6 \square \\
 4 \overline{) 676} \\
 - \square \\
 \hline
 2 \square \\
 - \square 4 \\
 \hline
 \square 6 \\
 - 3 \square \\
 \hline
 \square
 \end{array}$$

|   |   |
|---|---|
| 0 | 1 |
| 2 | 3 |
| 4 | 6 |
| 7 | 9 |

14. Jerry needs 1,800 pennies to fill 6 jars. He will put an equal number of pennies in each jar. How many pennies will Jerry put in each jar? What basic fact did you use?

15. The fourth graders are going to the theater to watch the movie version of the book they all have read.

| Group                   | Number of People |
|-------------------------|------------------|
| Mr. Blaine's Class      | 27               |
| Mrs. Hatch's Class      | 28               |
| Miss Rupert's Class     | 31               |
| Mr. Lang's Class        | 29               |
| Teachers and Chaperones | 11               |

Each row seats 9 people. How many rows will be needed to seat everyone?

16. Tanji was asked to find the quotient for  $88 \div 4$ . He drew an array and used the Distributive Property to find the quotient. Show Tanji's work.

17. The Comic Depot gives customers a free comic book when they purchase 9 comic books. How many free comic books can Marci get if she buys 68 comics? How many more comic books does she need to buy to get her next free comic book?

18. Estimate  $347 \div 6$ . Explain how you can use multiplication to estimate the quotient.

19. Chi has 144 books to place equally on 6 bookshelves. Which equation can you use to find how many books will be on each bookshelf?

- (A)  $144 \times 6 = b$       (C)  $144 + 6 = b$   
(B)  $144 \div 6 = b$       (D)  $144 - 6 = b$

20. Draw a picture to explain why  $567 \div 4 = 141 \text{ R}3$ .

21. The 5 fourth-grade classes at Brown Elementary raised a total of \$2,462 to purchase playground equipment. Write and solve an equation that shows one way to estimate the amount raised by each class.

22. Draw lines to match the equation to the correct missing number.

|                              |   |
|------------------------------|---|
| $3, \_00 \div 4 = 800$       | 7 |
| $805 \div \_ = 115$          | 6 |
| $420 \div 7 = \_0$           | 2 |
| $90 \div 8 = 1 \_ \text{R}2$ | 1 |

23. Mr. Draper uses 8 nails to secure each board of a fence. If there are 500 nails in a box, about how many boards will Mr. Draper be able to secure? Use compatible numbers to estimate the number of boards.