

Name _____

1. Select all the equations that are reasonable estimates for the quotient $124 \div 6$. **1 point**

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

2. Draw a bar diagram for the equation, and then solve.

$2,400 \div 8 = b$ **2 points**

2,400

b	b	b	b	b	b	b	b
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$b = 300$

3. Mrs. Brooks has 2 pieces of ribbon to make wreaths. One piece is 18 yards long and the other is 17 yards long. Each wreath requires 5 yards of uncut ribbon. How many wreaths can Mrs. Brooks make? How do the remainders affect the number of wreaths she can make? **2 points**

**6 wreaths; $18 \div 5 = 3 \text{ R}3$;
 $17 \div 5 = 3 \text{ R}2$; $3 + 3 = 6$.
 The remainders are
 3 yards and 2 yards. They
 are too short to make
 wreaths.**

4. A. Write an equation to show how to divide 575 into 5 equal groups. **1 point**

Sample answer:
 $575 \div 5 = p$

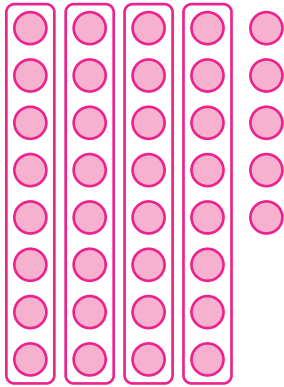
- B. Complete the model to solve the equation in A. **2 points**

	<u>100</u>	<u>10</u>	<u>5</u>
5	<u>500</u>	<u>50</u>	<u>25</u>

$575 \div 5 = 115$

5. What is the best estimate for $2,500 \div 6$? **1 point**
- (A) 600
 (B) 400
 (C) 800
 (D) 200

6. Draw an array and solve the equation.
 $37 \div 8 = ?$ **2 points**



$$37 \div 8 = 4 \text{ R}5$$

7. Use compatible numbers to estimate the quotient $330 \div 4$. Then find the exact answer. **2 points**

Sample answer:

$$320 \div 4 = 80;$$

$$330 \div 4 = 82 \text{ R}2$$

8. Find $4,200 \div 6$ using a place-value strategy. What basic fact did you use? **2 points**

$$700; 42 \div 6 = 7;$$
$$42 \text{ hundreds} \div 6 =$$
$$7 \text{ hundreds}$$

9. Select all the equations in which the remainder is 3. **1 point**

- $52 \div 6 = 8 \text{ R}?$
 $351 \div 6 = 58 \text{ R}?$
 $812 \div 9 = 90 \text{ R}?$
 $1,348 \div 7 = 192 \text{ R}?$
 $2,699 \div 8 = 337 \text{ R}?$

10. Which of the following expressions does **NOT** have a remainder of 5? **1 point**

- (A) $77 \div 9$
(B) $113 \div 9$
(C) $338 \div 9$
(D) $822 \div 9$

11. Which of the following is **NOT** equivalent to $48 \div 4$? **1 point**

- (A) $(40 + 8) \div 4$
(B) $(40 \div 4) + (8 \div 4)$
(C) $(40 \div 4) + 8$
(D) $(20 \div 4) + (28 \div 4)$

12. Select all the statements that are reasonable estimates for $331 \div 4$. **1 point**

- $160 \div 4$
- $320 \div 4$
- $360 \div 9$
- $300 \div 3$
- $360 \div 6$

13. Use partial quotients to find the quotient. Choose numbers from the box to complete the calculations. Use each number once. **1 point**

$ \begin{array}{r} 9 \\ 60 \\ \boxed{1}00 \\ \hline 4 \overline{)676} \\ \underline{-400} \\ 27\boxed{6} \\ \underline{-240} \\ 7\boxed{6} \\ \underline{-3\boxed{6}} \\ 4 \\ 0 \end{array} $	}	$1\boxed{6}\boxed{9}$	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 5px;">1</td><td style="padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">3</td><td style="padding: 5px;">4</td></tr> <tr><td style="padding: 5px;">6</td><td style="padding: 5px;">6</td></tr> <tr><td style="padding: 5px;">6</td><td style="padding: 5px;">9</td></tr> </table>	1	2	3	4	6	6	6	9
1	2										
3	4										
6	6										
6	9										

14. Find $1,800 \div 6$. What basic fact did you use? **2 points**

300; $18 \div 6 = 3$

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? **1 point**

14 rows

16. A. Divide. **1 point**

$$312 \div 6 = \underline{52}$$

B. How can the answer to A help you easily find $3,120 \div 6$? **1 point**

Sample answer: Since $3,120 = 312 \times 10$, I can multiply the quotient to A by 10. So, $3,120 \div 6 = 520$.

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 does the remainder affect the number of free comic books she gets? How many more comic books does she need to buy to get her next free comic book? **2 points**

Sample answer: 7 free comic books; Since customers need to purchase 9 comic books to get a free one, the remainder should be ignored. She needs 4 more comic books.

18. Estimate $347 \div 6$. Explain how you can use multiplication to estimate the quotient. **2 points**

**Sample answer:
 $6 \times 6 \text{ tens} =$
 $36 \text{ tens} = 360.$
 So, $347 \div 6$ is about 60.**

19. Use an equation to show how to share 144 into 6 equal groups. Explain how to check the answer using multiplication. **1 point**

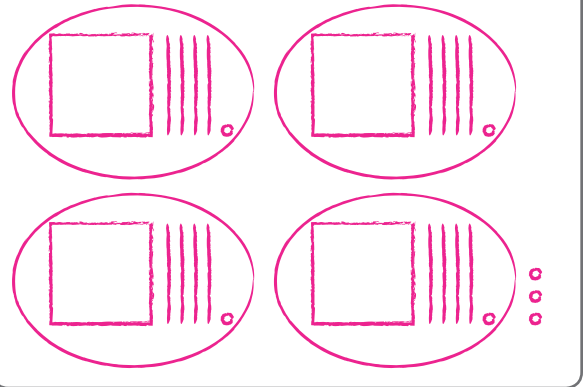
**Sample answer:
 $144 \div 6 = 24;$
 $6 \times 24 = 144$**

20. Write and solve an equation that shows one way to estimate $2,462 \div 5$. **2 points**

**Sample answer:
 $2,500 \div 5 = n; n = 500$**

21. Draw a picture to explain why $567 \div 4 = 141 \text{ R}3$. **1 point**

Sample drawing:



22. Match each equation with the correct missing number. **1 point**

	7	6	2	1
$3, \underline{\quad} 00 \div 4 = 800$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
$805 \div \underline{\quad} = 115$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$420 \div 7 = \underline{\quad} 0$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$90 \div 8 = 1 \underline{\quad} \text{R}2$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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. **1 point**

**Sample answer:
 $480 \div 8 = 60;$ about
 60 boards**