

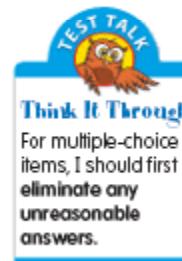
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## Chapter 3 Section B Diagnostic Checkpoint

### MULTIPLE CHOICE

- What is the quotient of  $232 \div 8$ ? (3-6)  
 A. 2 R9      B. 19      C. 28      D. 29
- What is the quotient of  $3,048 \div 6$ ? (3-7)  
 A. 58      B. 507 R5      C. 508      D. 509



### FREE RESPONSE

Find each quotient. Check your answers by multiplying.  
 (3-6, 3-7, 3-8, 3-9)

- |                          |                            |                             |
|--------------------------|----------------------------|-----------------------------|
| 3. $783 \div 9$          | 4. $392 \div 7$            | 5. $\$5.60 \div 2$          |
| 6. $8 \overline{)5,656}$ | 7. $4 \overline{)1,992}$   | 8. $5 \overline{)3,533}$    |
| 9. $6 \overline{)290}$   | 10. $9 \overline{)\$3.06}$ | 11. $8 \overline{)\$91.36}$ |

Find all the factors of each number. Tell whether each number is prime or composite. (3-10, 3-11)

12. 10      13. 48      14. 17      15. 40      16. 53

For 17–18, use the information at the right. (3-12)

- How many vans are needed to transport everyone to the train at the same time? Explain your answer.
- If one adult is willing to drive 4 students, will the number of vans needed change? Explain.

**Getting to the Train**  
 Ten adults and 100 students plan to take the train to a nearby city. To transport everyone to the train, the school will use vans that carry 8 passengers each.

### Writing in Math

- Money is used to model  $\$648 \div 4$ . If there are six \$100 bills, four \$10 bills, and eight \$1 bills to start, explain how the money can be divided equally. (3-5)
- Without dividing, how would you determine if a number is divisible by 2, 3, 4, 5 and 6? (3-10)
- Write a problem in which the remainder is the answer. (3-11)