

Ms. Ennamarie

Ms. Mary Ann

Room 9

6<sup>th</sup> Grade

Due: Thursday

Oct. 18<sup>th</sup>

Spelling List

Sixth Grade

collision

promotion

mission

version

restriction

commotion

observation

admission

caution

reception

suspicion

rotation

accommodation

duration

permission

6<sup>th</sup> Grade Language  
Worksheets to be sent  
home.

# Algebra: Use Mental Math to Solve Equations

Use mental math to solve each equation.

- |                             |                                 |                         |
|-----------------------------|---------------------------------|-------------------------|
| 1. $m + 15 = 20$ _____      | 2. $w \div 4 = 8$ _____         | 3. $37 - n = 35$ _____  |
| 4. $4 \times v = 20$ _____  | 5. $17 + f = 20$ _____          | 6. $18 - k = 12$ _____  |
| 7. $12 \times g = 60$ _____ | 8. $h \div 7 = 7$ _____         | 9. $y + 8 = 15$ _____   |
| 10. $g \div 8 = 6$ _____    | 11. $20 \times c = 1,000$ _____ | 12. $j + 12 = 15$ _____ |

Determine whether each solution is reasonable.  
Write *solution* or *not a solution*. Explain your reasoning.

- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| 13. $150 - y = 120; y = 30$<br>_____  | 14. $512 + m = 832; m = 122$<br>_____ |
| 15. $560 \div n = 70; n = 8$<br>_____ | 16. $42d = 126; d = 3$<br>_____       |
| 17. $y - 423 = 200; y = 723$<br>_____ | 18. $50 + g = 93; g = 53$<br>_____    |

## Test Prep

- |                                                                                                                      |                                                                                |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 19. What is the solution to $90 \div d = 15$ ?<br><b>A</b> $d = 75$ <b>C</b> $d = 6$<br><b>B</b> $d = 8$ <b>D</b> NH | 20. Explain how to find the solution for the equation $15 + v = 32$ .<br>_____ |
|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|

## Problem-Solving Decisions: Reasonable Answers

Determine whether each answer is reasonable. Explain why or why not.

**Show Your Work**

1. There were 214 people in the first tour group, 198 in the second, 315 in the third, and 598 in the fourth. Dean estimated 1,200 people toured the museum altogether.

\_\_\_\_\_

2. Lin has a \$20 bill. Her groceries cost \$13.95. The clerk gave her \$6.05 in change.

\_\_\_\_\_

3. A tour group consisted of 492 people. They are traveling in buses that hold 50 people each. The group needed 12 buses.

\_\_\_\_\_

4. A box contains 376 stuffed animals representing the school mascot. Each one sells for \$3.98. If all the stuffed animals sell, the school will make \$160.

\_\_\_\_\_

5. Marcus paid for a bus ticket with a \$50 bill. He received change of \$15.35. His ticket cost \$25.65.

\_\_\_\_\_

# Divisibility

Determine whether the first number listed is divisible by the second number.

- |                   |                   |                   |
|-------------------|-------------------|-------------------|
| 1. 84 9 _____     | 2. 127 3 _____    | 3. 1,700 5 _____  |
| 4. 753 3 _____    | 5. 256 6 _____    | 6. 824 4 _____    |
| 7. 5,240 10 _____ | 8. 7,512 6 _____  | 9. 8,905 5 _____  |
| 10. 4,026 4 _____ | 11. 5,924 6 _____ | 12. 9,423 9 _____ |

Complete this table. Place a check mark to show divisibility.

		54	180	912	2,700	5,605
13.	Divisible by 3	_____	_____	_____	_____	_____
14.	Divisible by 5	_____	_____	_____	_____	_____
15.	Divisible by 9	_____	_____	_____	_____	_____

Find the value of the missing digit that will make each resulting number divisible by 7.

- |                 |                   |                    |                     |
|-----------------|-------------------|--------------------|---------------------|
| 16. $3\square5$ | 17. $1,1\square6$ | 18. $41,0\square5$ | 19. $4\square9,852$ |
| _____           | _____             | _____              | _____               |

## Test Prep

20. The number 5,270 is *not* divisible by which number?

- |      |     |
|------|-----|
| A 10 | C 3 |
| B 5  | D 2 |

21. If Fred has 64 books to give away, could he split them evenly amongst four of his friends? Explain.

\_\_\_\_\_

\_\_\_\_\_

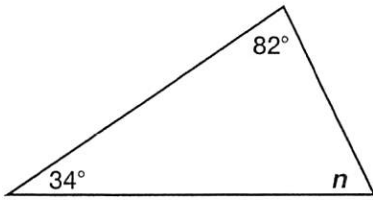
\_\_\_\_\_

\_\_\_\_\_

## Triangles and Angle Sums

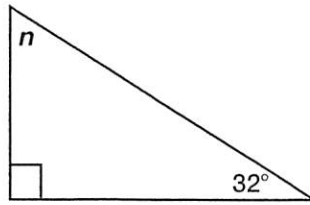
Classify each triangle by its sides and by its angles. Then find the degree measure of  $\angle n$  in each triangle.

1.



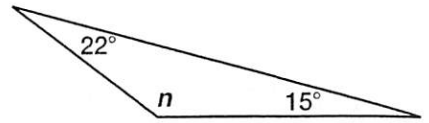
\_\_\_\_\_

2.



\_\_\_\_\_

3.

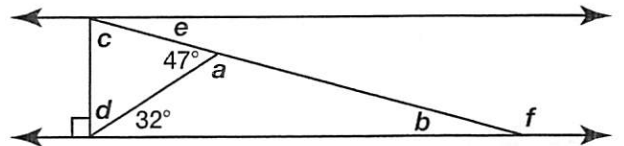


\_\_\_\_\_

Use the diagram to find each angle measure.

4.  $a$  \_\_\_\_\_ 5.  $b$  \_\_\_\_\_

6.  $d$  \_\_\_\_\_ 7.  $c$  \_\_\_\_\_



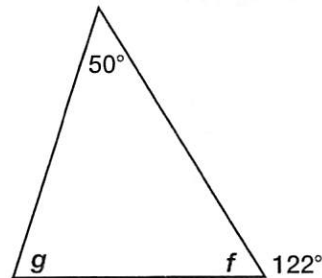
Draw an example of each.

8. a triangle that is both right and isosceles      9. a triangle that is both acute and equilateral      10. a triangle that is both obtuse and isosceles

**Algebra • Equations** Use the diagram. Write and solve an equation to find each angle measure.

11.  $\angle F$  \_\_\_\_\_

12.  $\angle G$  \_\_\_\_\_



### Test Prep

13. Two angles in a triangle measure  $34^\circ$  and  $61^\circ$ . What is the measure of the third angle?

- A  $75^\circ$                       C  $95^\circ$   
B  $85^\circ$                       D Cannot be determined.

14. Two angles form a straight angle. One angle measures  $75^\circ$ . Describe how to find the measure of the other angle.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_