Name _____ Date _____ Class _____

LESSON 11-4

Problem Solving

Adding Integers

In 1997, Tiger Woods became the youngest golfer ever to win the Masters Tournament. There are four rounds of 18 holes in the Masters Tournament. Use Woods's scorecard to answer questions 1–6.

Tiger Woods																		
Hole	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Rd. 1	1	0	0	1	0	0	0	1	1	−1	0	−1	−1	0	−2	0	−1	0
Rd. 2	0	−1	1	0	−1	0	0	−1	0	0	0	0	−2	−1	−1	0	0	0
Rd. 3	0	−1	0	0	−1	0	−1	−1	0	0	−1	0	0	0	−1	0	0	−1
Rd. 4	0	−1	0	0	1	0	1	−1	0	0	−1	0	−1	−1	0	0	0	0

1. What was Woods's total score for round 1 of the tournament?

_____

2. What was his total score for the second round of the tournament?

_____

3. What was his total score for the third round of the tournament?

_____

4. What was his total score for the fourth round of the tournament?

_____

Circle the letter of the correct answer.

5. Woods's final score in 1997 was the lowest in the history of the Masters Tournament. What was Woods's record-breaking final score?

A −16
B −17
C −18
D −20

6. Tom Kite placed second in the 1997 Masters Tournament. His final score was 12 strokes higher than Tiger Woods's final score. What was Kite's final score?

F −30
G −12
H −8
J 0

7. Which of the following is the sum of Woods's scores on the 8th hole?

A 2
B 1
C −1
D −2

8. Which of the following is the sum of Woods's scores on the 15th hole?

F 4
G −4
H 0
J 1

LESSON 11-4 Challenge

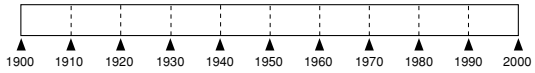
Time Adds Up

Solve the addition problems below to find the date each toy or game was invented. Then use those dates to label the time line at the bottom of the page.

	Invention		Addition	Date
1.		Frisbee	50 + (−2)	1948
2.		Pogo Stick	−11 + 32	1921
3.		Crossword Puzzle	−1 + 17 + (−3)	1913
4.		Skateboard	−43 + 101	1958
5.		Yo-Yo	38 + (−9)	1929
6.		Rollerblades	−25 + 105	1980
7.		Teddy Bear	−2 + 8 + (−3)	1903
8.		Slinky	50 + (−4)	1946

Check students' time lines.

Time Line of Toys and Games



LESSON 11-4 Problem Solving

Adding Integers

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Tiger Woods																		
Hole	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Rd. 1	1	0	0	1	0	0	0	1	1	−1	0	−1	−1	0	−2	0	−1	0
Rd. 2	0	−1	1	0	−1	0	0	−1	0	0	0	0	−2	−1	−1	0	0	0
Rd. 3	0	−1	0	0	−1	0	−1	−1	0	0	−1	0	0	0	−1	0	0	−1
Rd. 4	0	−1	0	0	1	0	1	−1	0	0	−1	0	−1	−1	0	0	0	0

1. What was Woods's total score for round 1 of the tournament?

−2

2. What was his total score for the second round of the tournament?

−6

3. What was his total score for the third round of the tournament?

−7

4. What was his total score for the fourth round of the tournament?

−3

Circle the letter of the correct answer.

5. Woods's final score in 1997 was the lowest in the history of the Masters Tournament. What was Woods's record-breaking final score?

A −16
B −17
C −18
D −20

6. Tom Kite placed second in the 1997 Masters Tournament. His final score was 12 strokes higher than Tiger Woods's final score. What was Kite's final score?

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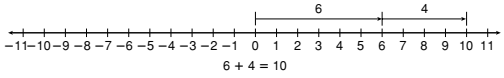
H 0
J 1

LESSON 11-4 Reading Strategies

Use a Graphic Aid

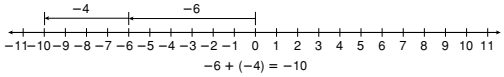
A number line can help you picture adding integers.

6 + 4 → Move right 6 places; then move right 4 more.



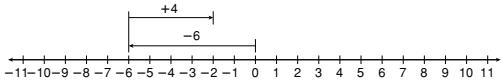
6 + 4 = 10

−6 + (−4) → Move left 6 places; then move left 4 more.



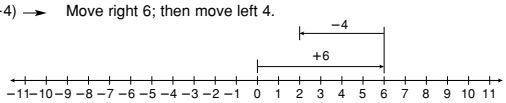
−6 + (−4) = −10

−6 + 4 → Move left 6; then move right 4.



−6 + 4 = −2

6 + (−4) → Move right 6; then move left 4.



6 + (−4) = 2

Use the number lines to help you answer the questions.

1. When you add two negative integers, is the sum positive or negative? Explain.

negative, because you move to the left twice

2. When you add two positive integers, is the sum positive or negative? Explain.

positive, because you move to the right twice

3. Why is the sum of −6 and 4 negative?

because you move 6 places to the left and only 4 to the right

4. Why is the sum of 6 and −4 positive?

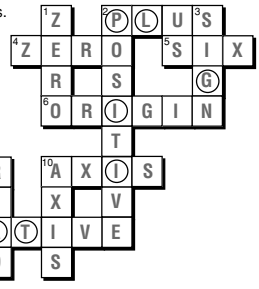
because you move 6 places to the right and only 4 to the left

LESSON 11-4 Puzzles, Twisters & Teasers

Fit It All Together

Across

2. A way to indicate addition.
4. The sum of −4, −3, +5, −2, +4.
5. Many children start school at this age.
6. Intersection of the *x*-axis and the *y*-axis.
7. My name has the same number of letters as my value.
10. Either *x*-_ _ _ _ or *y*-_ _ _ _.
11. The sign of the answer: (4 − 17)



Down

1. 8 + (−8)
2. The opposite of clue 11 across.
3. Can be positive or negative.
8. The first counting number.
9. Do this first to solve a word problem.
10. Same clue as the other #10.

Unscramble the letters that are circled to solve the riddle.

What kind of story is The Three Little Pigs?

P I G T A I L