**Integer Operations Study Guide** SCORE

***Write the letter for the correct answer in the blank at the right of each question.***

**1.**  Which value of *q* makes –15 – (–9) = *q* a true sentence?

**A.**  –24 **B.**  –6 **C.**  6 **D.**  24

**2.**  A snake dives towards deeper water at a rate of 14 inches per second.

If the snake continues at this rate for a total of 6 seconds, which expression   
represents this situation?

**F.**  6(–14) **G.**  –6(–14) **H.**  6 ÷ 14 **I.**  6 ÷ (–14)

**3.**  Ishi has $24 in his wallet. He pays $8 to have his car washed. Which   
expression represents this situation?

**A.**  –24 + (–8) **B.**  –24 + 8 **C.**  24 + (–8) **D.**  24 + 8

**4.**  The highest point in Louisiana is Driskill Mountain at 585 feet. The   
lowest point is –8 feet in New Orleans. What is the difference in feet   
between the highest and lowest elevation points?

**F.**  578 feet **G.**  593 feet **H.**  601 feet **I.**  609 feet

**5.**  The average daytime temperature on Venus is 870°F.The average   
temperature on Jupiter is –160°F**.** What is the difference between   
the average temperatures on Venus and Jupiter?

**A.**  710°F **B.**  730°F **C.**  1,030°F **D.**  1,050°F

**6.** An archaeologist descends 22 feet into a canyon, then climbs   
up 15 feet. What is his final position?

**F.**  –37 ft **G.**  –15 ft **H.**  –7 ft **I.**  7 ft

**7.**  12 + (–5)

**A.**  –17 **B.**  –7 **C.**  7 **D.**  17

**8.**  –8(–10)

**F.**  –80 **G.**  –18 **H.**  18 **I.**  80

**9.**

**A.**  2 **B.**  0.5 **C.**  –2 **D.**  –24

**10.**  –37 – 8

**F.**  –45 **G.**  –29 **H.**  45 **I.**  296

**11.**  7(–3)

**A.**  21 **B.**  4 **C.**  –2 **D.**  –21

**12.**  What value of *s* makes –18 – (–5) = *s* a true sentence?

**A.**  23 **B.**  13 **C.**  –13 **D.**  –23

**13.**  A snake dives towards deeper water at a rate of 18 inches per   
second. If the snake continues at this rate for a total of 9 seconds,   
which expression represents this situation?

**F.**  9 ÷ 18 **G.**  9 ÷ (–18) **H.**  9(–18) **I.**  –9(–18)

**14.**  Amanda has $31 in her purse. She pays $6 for lunch. Which   
expression represents this situation?

**A.**  31 + 6 **B.**  31 + (–6) **C.**  –31 + 6 **D.**  –31 + (–6)

**15.**  The highest point in Argentina is 6,960 meters above sea level.   
The lowest point is 105 meters below sea level. What is the   
difference in meters between the highest and lowest elevation points?

**F.**  7,065 m **G.**  6,960 m **H.**  6,855 m **I.**  105 m

**16.**  The lowest temperature on Mars can reach –140°C while the highest   
temperature can be 20°C.What is the difference between the highest   
and lowest temperatures on Mars?

**A.**  120°C **B.**  140°C **C.**  160°C **D.**  200°C

**17.** A window cleaner rises 36 feet up the side of a building,   
then descends 17 feet. What is his final position?

**F.**  53 ft **G.**  19 ft **H.**  –19 ft **I.**  –53 ft

**18.**  11 + (–7)

**A.**  –18 **B.**  –4 **C.**  4 **D.**  18

**19.**  –5(–11)

**F.**  55 **G.**  16 **H.**  –16 **I.**  –55

**20.**  –15 ÷ (–3)

**A.**  18 **B.**  5 **C.**  –5 **D.**  –18

**21.**  –39 – 7

**F.**  –46 **G.**  –32 **H.**  46 **I.**  273

**22.**  8(–4)

**A.**  32 **B.**  4 **C.**  –2 **D.**  –32