Name Date

Practice A

1.5

Divide, if possible.

1.  2.  3.  4. 

5.  6.  7.  8. 

9.  10.  11.  12. 

13. Your team dives for 28 lobsters over 7 days. What is the average daily lobster catch?

Find the mean of the integers.

14.  15. 

Evaluate the expression.

16.  17.  18. 

Find the next two numbers in the pattern.

19.  20. 

21. A skateboarder descends on a ramp from 172 feet to 67 feet in 15 seconds. What is the average change in height per second?

22. The velocity (in feet per second) of a bouncing ball was recorded every second. The table shows the velocity for each second.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time (sec) | 1 | 2 | 3 | 4 | 5 |
| Velocity (ft/sec) |  |  | 2 | 10 |  |

a. What is the average velocity of the bouncing ball over the 5 seconds?

b. What is the highest recorded speed of the bouncing ball? Is the ball going up or down at this speed?

c. During the 5 second period, did the ball spend more time going up or going down? Explain your reasoning.

d. Between which two seconds did the ball change from going up to going down? Explain your reasoning.

Name Date

Practice B

1.5

Divide, if possible.

1.  2.  3.  4. 

5.  6.  7.  8. 

9.  10.  11.  12. 

13. Your team catches 42 Mahi Mahi over 2 weeks. What is the average daily Mahi Mahi catch?

Evaluate the expression.

14.  15. 

16.  17.  18. 

19. PI-Squared and Euler Circles are in a math competition consisting of   
10 two-part questions. Both parts correct earns 5 points, one part correct earns 2 points, and no parts correct earns  point.

|  |  |  |  |
| --- | --- | --- | --- |
| Team | Both | One | None |
| PI-Squared | 4 | 2 | 4 |
| Euler Circles | 2 | 6 | 2 |

a. What is the mean points per   
question for PI-Squared?

b. What is the mean points per   
question for Euler Circles?

c. Which team should win the competition? Explain your reasoning.

20. A 155-pound person burns about 500 calories per hour playing racquetball.

a. One pound is equal to 3500 calories. How long will it take to burn   
1 pound playing racquetball?

b. How long will it take to burn 5 pounds playing racquetball? Explain your reasoning.

c. If the person were to rest 5 minutes for every 30 minutes of playing, how long would it take to burn 1 pound?