Practice quiz: Associate Safety Professional (ASP)

10 questions. The answer key is on page 2.

Name _____ Date _____

1. **A plant had 6 recordable cases in a year in which its employees worked 240,000 hours. Using 200,000 hours as the base, what is the total recordable incidence rate, to the nearest 0.1?**
   A. 2.5
   B. 50.0
   C. 7.2
   D. 5.0

2. **A site has 150 full-time employees who each worked 40 hours a week for 50 weeks, with no overtime. It recorded 9 recordable cases. Using 200,000 hours as the base, what is the total recordable incidence rate, to the nearest 0.1?**
   A. 6.0
   B. 5.8
   C. 3.0
   D. 60.0

3. **A facility worked 280,000 hours and had 10 recordable cases: 4 with days away, 2 with restricted work only, 1 with a job transfer and 3 with medical treatment only. Using 200,000 hours as the base, what is the DART rate, to the nearest 0.1?**
   A. 7.1
   B. 5.0
   C. 2.9
   D. 4.3

4. **A plant worked 320,000 hours. Six cases involved days away from work, totaling 96 days away. Using 200,000 hours as the base, what is the days-away severity rate (days per 200,000 hours)?**
   A. 30.0
   B. 153.6
   C. 60.0
   D. 3.8

5. **Why do US injury rates commonly use 200,000 hours as their base?**
   A. It is the average number of hours one worker puts in over a career
   B. It is what a typical 1,000-person plant works in one month
   C. Each employer sets its own figure to fit its own size
   D. It equals 100 full-time workers at 40 hours a week for 50 weeks a year

6. **Site A had 9 recordable cases in 600,000 hours. Site B had 6 recordable cases in 300,000 hours. Using 200,000 hours as the base, which site has the higher total recordable rate?**
   A. Site B, at 4.0 versus 3.0
   B. Site A, because it had more cases
   C. Neither; both rates are equal
   D. Site A, at 3.0 versus 2.0

7. **A site expects to work 750,000 hours next year and wants its total recordable rate to stay at or below 2.4 (base 200,000 hours). What is the most recordable cases it can have?**
   A. 18
   B. 0.6
   C. 9
   D. 1.8

8. **One injured worker had 2 days away from work and then 15 days of restricted work for the same injury. How many cases does this add to the DART numerator?**
   A. Two cases, one of each type
   B. One case
   C. Seventeen, one for each day
   D. None, since restricted days outnumber days away

9. **Year over year, a site's DART rate fell from 3.0 to 2.2 while its days-away severity rate rose from 40 to 65. What is the most likely reading?**
   A. Both measures show the same improving trend
   B. The site must have worked fewer hours this year
   C. The two rates cannot be compared, so ignore them
   D. Fewer cases, but each remaining case is costing more days

10. **A site's total recordable rate fell from 5.0 last year to 4.0 this year. What is the percent change?**
    A. 20% decrease
    B. 25% decrease
    C. 1% decrease
    D. 80% decrease

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Answer key

Associate Safety Professional (ASP). One line of why for each answer.

1. **D** Rate = 6 x 200,000 / 240,000 = 1,200,000 / 240,000 = 5.0.
2. **A** Hours = 150 x 40 x 50 = 300,000.
3. **B** DART cases = 4 + 2 + 1 = 7.
4. **C** Severity rate = days x 200,000 / hours = 96 x 200,000 / 320,000 = 60.0.
5. **D** 100 workers x 40 hours x 50 weeks = 200,000 hours, so a rate reads as cases per 100 full-time workers per year.
6. **A** Site A: 9 x 200,000 / 600,000 = 3.0.
7. **C** Cases = rate x hours / 200,000 = 2.4 x 750,000 / 200,000 = 9.
8. **B** DART counts cases, and one injury is one case even when it has both days away and restricted days.
9. **D** DART counts cases and the severity rate counts days, so fewer cases with more days lost means the cases that remain are more serious.
10. **A** Percent change = (old - new) / old = (5.0 - 4.0) / 5.0 = 20%.

Full explanations

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