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QUESTION 1

A square has an area of 36. If you doubled the length of the sides of the square, what will its new perimeter be?

A. 24

B. 36

- C. 48
- D. 52
- E. 72

Correct Answer: C

If a square has an area of 36, it\\'s sides must be 6, as $s^2 = area$ of a square.

Doubling the side of the square gives 12. Add all 4 sides (12 + 12 + 12 + 12) and you have a perimeter of

48.

QUESTION 2

Which of the following represents a possible product for the following reaction?







- E. N.R.
- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E
- Correct Answer: D

This is a Wolff-Kishner reaction, that basically removes a carbonyl, leaving a methylene. Know the reaction itself and the name.

QUESTION 3

In IUPAC nomenclature, which of the following functional groups has the highest priority in numbering a parent chain?

A. Alkanes

B. Alkenes



- C. Alkynes
- D. Amines
- E. Esters
- Correct Answer: E

QUESTION 4

If a compound is 80% optically pure S, which of the following is true?

- A. 90% S, 10% R
- B. 80% S, 20% R
- C. 10% S, 90% R
- D. 20% S, 80% R
- E. 35% S, 65% R
- Correct Answer: A

80% optically pure signifies that 80% is enantiomer A, and the remaining 20% is racemic. Thus, 80% is pure S, and 20% is R + S (a racemic mixture). Therefore, it is 90% S and 10% R.

QUESTION 5

What is the sum of the interior angles of a regular nonagon?

- A. 900°
- B. 1080°
- C. 540°
- D. 1260°
- E. 1440°

Correct Answer: D

The sum of interior angles for any regular shaped polygon can be determined with the following equation:

(n?2) × 180°

Where n is # of sides. In this case, a nonagon is a 9-sided polygon. Plugging in 9 in the equation gives 1260° for all 9 sides combined. If asked for EACH angle, then you would just divide 1260° by 9.

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