

Name

14q - 3 digit id (0338)

ZIPGRADE.COM

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| | | | | | | | | | | | |
|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 1 | (A) | (B) | (C) | (D) | (E) | 13 | (A) | (B) | (C) | (D) | (E) |
| 2 | (A) | (B) | (C) | (D) | (E) | 14 | (A) | (B) | (C) | (D) | (E) |
| 3 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 4 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 5 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 6 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 7 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 8 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 9 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 10 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 11 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 12 | (A) | (B) | (C) | (D) | (E) | | | | | | |

ZipGrade ID

| | | |
|---|---|---|
| | | |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |
| 7 | 7 | 7 |
| 8 | 8 | 8 |
| 9 | 9 | 9 |

Key

| | | | |
|--|-----|-----|-----|
| | (B) | (C) | (D) |
|--|-----|-----|-----|

Please do not open this test until told to do so!

- Put your name on both this page and the next page.
- Bubble in the number that is on your class notebook where it says "Student ID"
- When instructed, tear off this first page.
- Write your answers to the free-response questions directly on the packet.
- Bubble in your answers to the multiple-choice questions here.
- You may write anywhere on the packet.

$$W = Fd \quad P = \frac{W}{t} \quad F_G = mg \quad KE = \frac{1}{2}mv^2 \quad PE = mgh$$

$$KE_i + PE_i + W = KE_f + PE_f$$

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|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|
| 1 | (A) | (B) | (C) | (D) | (E) | 13 | (A) | (B) | (C) | (D) | (E) |
| 2 | (A) | (B) | (C) | (D) | (E) | 14 | (A) | (B) | (C) | (D) | (E) |
| 3 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 4 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 5 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 6 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 7 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 8 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 9 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 10 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 11 | (A) | (B) | (C) | (D) | (E) | | | | | | |
| 12 | (A) | (B) | (C) | (D) | (E) | | | | | | |

ZipGrade ID

| | | |
|---|---|---|
| | | |
| 0 | 0 | 0 |
| 1 | 1 | 1 |
| 2 | 2 | 2 |
| 3 | 3 | 3 |
| 4 | 4 | 4 |
| 5 | 5 | 5 |
| 6 | 6 | 6 |
| 7 | 7 | 7 |
| 8 | 8 | 8 |
| 9 | 9 | 9 |

Key

| | | | |
|-----|---|-----|-----|
| (A) | ● | (C) | (D) |
|-----|---|-----|-----|

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$$KE_i + PE_i + W = KE_f + PE_f$$