**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**HW Simple/Compound Interest and comparisons. Due Wednesday, December 19**

Calculate the TOTAL amount of money in a bank account comparing a savings account with simple interest and an account compounded annually. **Show your work.**

|  |  |  |
| --- | --- | --- |
| **Problem** | **Simple Interest** | **Compound Interest** |
| **Formula**  P = principle  r = interest rate  t = time | Write the formula here: | Write the formula here: |
| $5,000 at 4% for 6 years |  |  |
| $2,000 at 3% for 7 years |  |  |
| $8,000 at 7% for 10 years |  |  |
| $8,000 at 6% for 11 years |  |  |

|  |  |
| --- | --- |
| **Favorite App** | **Number of Students** |
| **Snapchat** | **25** |
| **Facebook** | **20** |
| **Instagram** | **16** |
| **Twitter** | **8** |
| **Pinterest** | **6** |

**Use the table on the right to complete the questions below.**

A. The ratio of students who prefer Snapchat to Facebook is \_\_\_ to \_\_\_.

B. The fraction of students who say Instagram is their favorite App is \_\_\_\_\_\_\_.

C. \_\_\_\_\_\_ percent of student say Pinterest is their favorite app.

D. \_\_\_\_\_\_ more people said Snapchat is their favorite app compared to Instragram.

E. The ratio of students preferring Twitter to Facebook is \_\_\_\_\_\_ to \_\_\_\_\_\_\_.