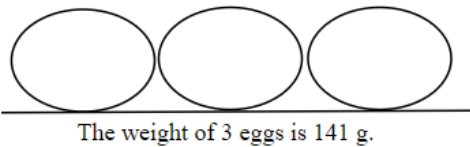**For those who CANNOT access Digits and have talked to me about it, you can access the homework problems here.**

You can either "Make a Copy" of this document and type your answers below the question OR do your homework on paper and turn it in to me by the due date.

1.

The weight of 3 eggs is shown. Identify the constant of proportionality of total weight to number of eggs.

The weight of 3 eggs is 141 g.

The constant of proportionality is ☐ grams per egg.

2.

Suppose the relationship between x and y is proportional. When x is 4, y is 56. Identify the constant of proportionality of y to x.

The constant of proportionality is ☐. (Simplify your answer.)

3.

Since a middle school opened, the girls' basketball team has had the same record every season. The team has won a total of 144 games while losing only 12 games. Find the constant of proportionality of wins to losses.

The constant of proportionality is ☐ wins per loss.

4.

Does the table show a proportional relationship? If so, what is the constant of proportionality of y to x?

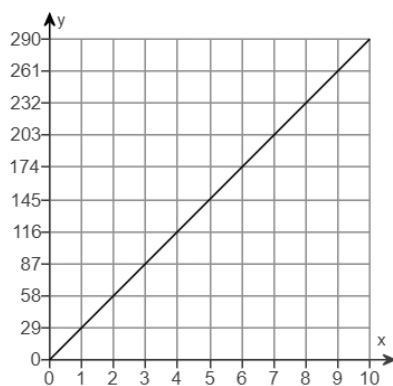| x	2	3	4	5
y	18	27	36	45

Select the correct choice below. If necessary, fill in the answer box to complete your choice.

○ **A.** The table shows a proportional relationship. The constant of proportionality is ☐ .
(Simplify your answer.)

○ **B.** The table does not show a proportional relationship.

5.

The variable y has a proportional relationship with x as suggested by the graph. Use the graph to find the constant of proportionality.

The constant of proportionality is ☐ .
(Simplify your answer.)