Q1: Identify the dependent variable in the following situation: Ethan spent d dollars on n pens.

A the number of dollars, d

B the number of pens, n

Q2: Identify the independent variable in the following situation: A garden hose runs for h hours and produces g gallons of water.

A the number of hours, h

B the gallons of water, g

Q3: Consider these related quantities: a call duration and its cost.

Which quantity is the independent variable?

A The call duration

B The call cost

C Neither

Which quantity is the dependent variable?

A The call cost

B Neither

C The call duration

Q4: Consider these related quantities: The area of a wall to be painted and the amount of paint needed to paint that area.

Which quantity is the dependent variable?

A The quantity of paint needed

B The area of the wall to be painted

C Neither

Which quantity is the independent variable?

A Neither

B The quantity of paint needed

C The area of the wall to be painted

Q6: James wants to investigate the relationship between the temperature of the oven and the time it takes to cook 1 kilogram of potatoes.

What is the dependent variable?

A The oven temperature

B The cooking time

C The mass of the potatoes

D None

What is the independent variable?

A The oven temperature

B The mass of the potatoes

C None

D The cooking time

LIVEWORKSHEETS