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Dilations/Translations Worksheet

Directions: Answer the following questions to the best of your ability. For the y-axis, use the same scaling as the x-axis.

1. In Math, the word dilate means to _____ or _____ a figure.
2. If a scale factor is less than 1, then your figure gets _____.
3. If a scale factor is greater than 1, then your figure gets _____.

4.

Graph the dilated image of triangle JKL using a scale factor of 2 and (0,0) as the center of dilation.

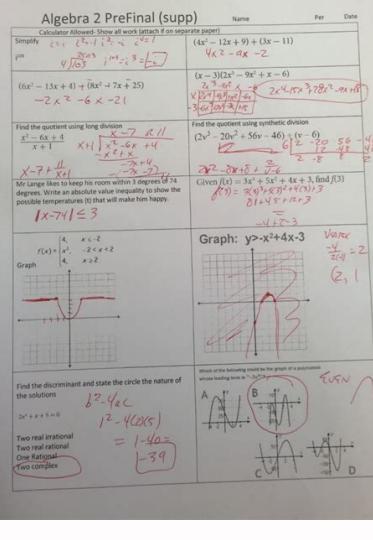
J: _____ J': _____
 K: _____ K': _____
 L: _____ L': _____

5.

Graph the dilated image of quadrilateral MNOP using a scale factor of 3 and the origin as the center of dilation.

M: _____ M': _____
 N: _____ N': _____
 O: _____ O': _____
 P: _____ P': _____

SOURCE	HORMONE	CHEMICAL COMPOSITION	TRIGGER	TARGET ORGAN AND EFFECTS
Adipose tissue	Leptin	Peptide	Secretion proportional to fat stores; increases by nutrient uptake	Brain: suppresses appetite; increases energy expenditure
Adipose tissue	Resistin, adiponectin	Peptides	Secretion proportional to fat stores; for resistin, inversely proportional for adiponectin	Fat, muscle, liver: resistin antagonizes insulin's action and adiponectin enhances it
Gastrointestinal (GI) tract mucosa				
Stomach	Gastrin	Peptide	Secreted in response to food	Stomach: stimulates glands to release hydrochloric acid (HCl)
Stomach	Ghrelin	Peptide	Secreted in response to fasting	Hypothalamus and pituitary: stimulates food intake and GHI release
Duodenum (of small intestine)	Secretin	Peptide	Secreted in response to food	Pancreas and liver: stimulates release of bicarbonate-rich juice; stimulates secretion activity
Duodenum	Cholecystokinin (CCK)	Peptide	Secreted in response to food	Pancreas: stimulates release of enzyme-rich juice Gallbladder: stimulates expulsion of bile
Duodenum (and other gut regions)	Incretins [glucose-dependent insulinotropic peptide (GIP) glucagon-like peptide 1 (GLP-1)]	Peptide	Secreted in response to glucose in intestinal lumen	Pancreas: enhances glucose-dependent release of insulin and inhibition of glucagon release
Heart (atria)	Atrial natriuretic peptide (ANP)	Peptide	Secreted in response to stretching of atria (by rising blood pressure)	Kidney: inhibits sodium ion reabsorption and renin release Adrenal cortex: inhibits secretion of aldosterone; decreases blood pressure
Kidney	Erythropoietin (EPO)	Glycoprotein	Secreted in response to hypoxia	Red bone marrow: stimulates production of red blood cells
Skeleton	Osteocalcin	Peptide	Unknown; insulin promotes its activation	Increases insulin production and insulin sensitivity
Skin (epidermal cell)	Cholecalciferol (vitamin D ₃)	Steroid	Activates the kidney; active vitamin D ₃ (calcitriol) acts on parathyroid hormone	Intestine: promotes calcium transport of dietary calcium across cell membranes of small intestine
Thymus	Thymulin, thymopoietins, thymosins	Peptides	Unknown	Mostly act locally as paracrine; involved in T lymphocyte development and in immune responses



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