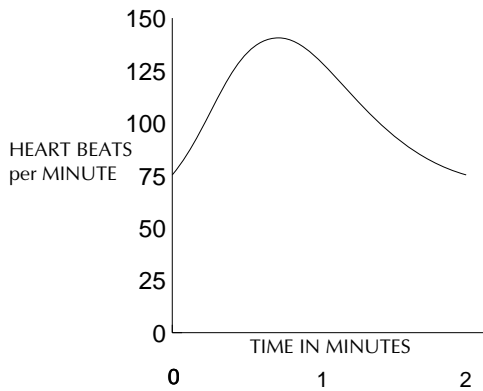




Questions 18-22 are about a normally fit 11 year old boy with a resting heart rate of 75 beats per minute. The following activities affect the rate at which his heart beats. Number them from 1 to 5. Activity number 1 will give him the slowest heart rate and activity 5 will give him the fastest.

	Activity	Number
18	sleeping	(_____)
19	jogging	(_____)
20	running to the top of a sand dune	(_____)
21	standing still	(_____)
22	walking	(_____)

23 Which activity above is represented by the graph below? (\_\_\_\_\_)



24 Which activity in questions 18-22 may have a rate of less than 75 beats per minute? (\_\_\_\_\_)

25 Three normally fit 10 year old girls decided to study the effects of exercise on heart rate. One child skipped, another kicked a ball against a wall and the third ran on the spot. Each activity lasted for exactly two minutes. Pulse rates were taken immediately before and after the activities. The increase in each child's pulse rate was calculated and compared with that of the others.

Why was this not a fair test? Tick your answer from the list below.

- (a) Two minutes exercise is not enough for an experiment.
- (b) Skipping is more difficult than kicking a ball.
- (c) They all did different activities.
- (d) Girls don't usually play football.

# ANSWERS

## LIFE PROCESSES & LIVING THINGS 1 TEST ONE

- 1) Skull
- 2) Ribs
- 3) Thigh Bone
- 4) Brain
- 5) & 6) Lungs and heart \*
- 7) Ball and socket joint
- 8) Hinge joint
- 9) Gliding joint
- 10) Ball and socket joint
- 11) Pull
- 12 & 13) Contracts / Relaxes \*
- 14) Push
- 15) Bob
- 16) c
- 17) b
- 18) 1
- 19) 4
- 20) 5
- 21) 2
- 22) 3
- 23) Running up sand dune
- 24) Sleeping
- 25) c
- 26) Maureen
- 27) & 28) Peter & Janet\*
- 29) Brian
- 30) Blue
- 31) Blond
- 32) Less
- 33) b & d
- 34) Arteries
- 35) Veins
- 36) Capillaries
- 37) Valves
- 38) Lungs
- 39) Kidneys
- 40) B
- 41) a, e
- 42) White Bread,  
Chicken Breast,  
Butter
- 43) a, c,
- 44) c, f
- 45) Molar
- 46) Canine
- 47) Incisor
- 48 - 50) Brush teeth regularly \*  
Eat fresh fruit and vegetables.  
Avoid sugary foods /  
visit dentist etc.

\* Any order.

## LIFE PROCESSES & LIVING THINGS 1 TEST TWO

- 1) Mouth
- 2) Oxygen
- 3) Carbon dioxide
- 4) Expelled
- 5) Lungs
- 6) True
- 7) True
- 8) False
- 9) True
- 10) Ventilation
- 11) Carbon dioxide
- 12) Oxygen
- 13) Less
- 14) Oxygen
- 15) b, d, e
- 16) Your nose helps warm the air  
going to your lungs. \*
- 17) Hairs in your nose remove  
dust etc from the air. \*
- 18) Taste
- 19) Smell
- 20) Sight
- 21) Hearing
- 22) Touch
- 23) Sight and Touch \*
- 24) Sight and Hearing \*
- 25) Sight and Touch \*
- 26) Digestion
- 27) Mouth
- 28) Chewed
- 29) Stomach
- 30) Small
- 31) Large
- 32) Incisor
- 33) Canine
- 34) Molar
- 35) Brain
- 36) Mouth
- 37) Stomach
- 38) Small Intestine
- 39) Large Intestine
- 40) a, c, e
- 41) Mouth
- 42) Airway
- 43) Lungs
- 44) C
- 45) By pipe, cigar etc.
- 46) 5
- 47) 1
- 48) 4
- 49) 2
- 50) 3

\* Any order.

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