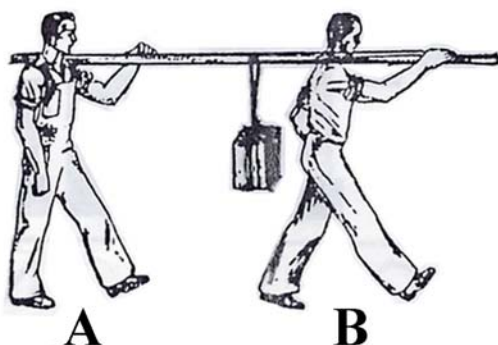




TEST  
FOR  
TECHNICAL APPLICANTS

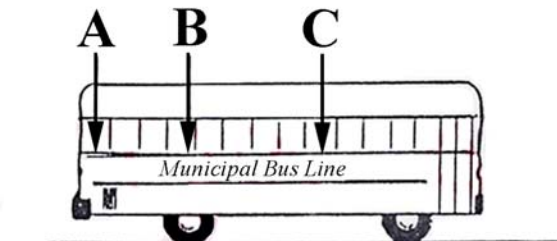
# Directions

Please circle your answer on the answer sheet accompanying this test. Answer all questions to the best of your ability.



- 1 -

Which man carries more weight?  
(If equal, mark C)



- 2 -

Which letter shows the seat where a passenger will get the smoothest ride?



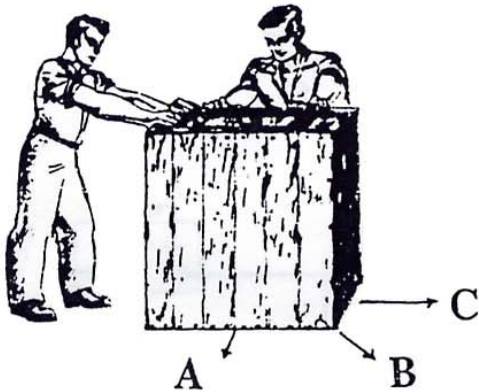
- 3 -

Which is the best way to lift the shovel?  
(If equal, mark C)



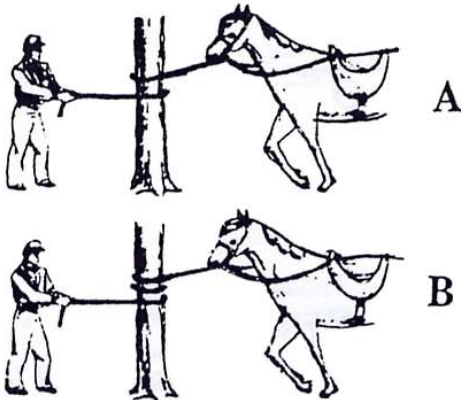
- 4 -

If the upper wheel goes in direction shown, in which direction will the lower wheel go?  
(If equal, mark C)



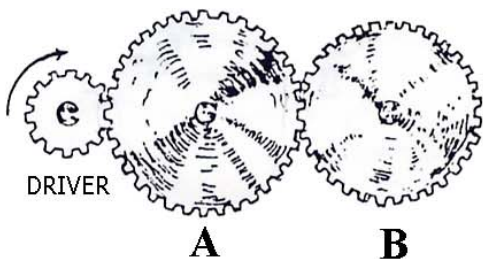
- 5 -

In which direction will the crate go if the men push against it with equal force?  
(If equal, mark C)



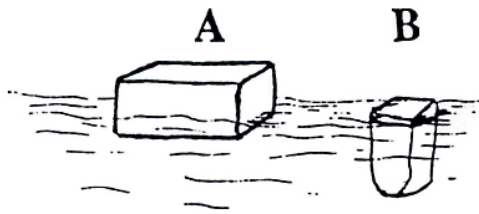
- 6 -

Which horse will be harder to hold?  
(If equal, mark C)



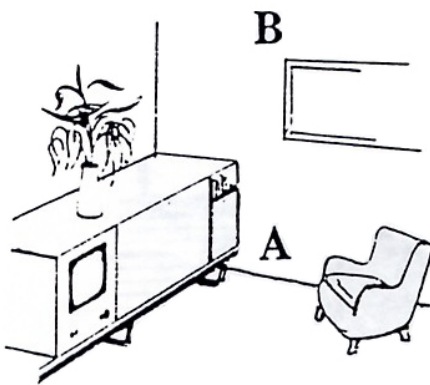
- 7 -

Which gear will turn the same way as the driver?  
(If equal, mark C)



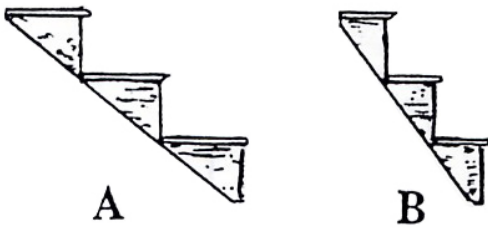
- 8 -

Which of these objects is made of the lighter material?  
(If equal, mark C)



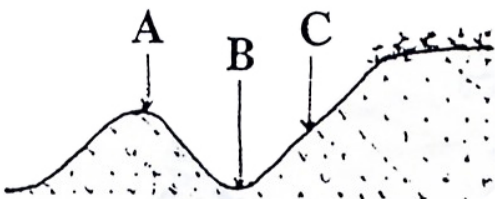
- 9 -

At which point in the room is the air likely to be warmer?  
(If equal, mark C)



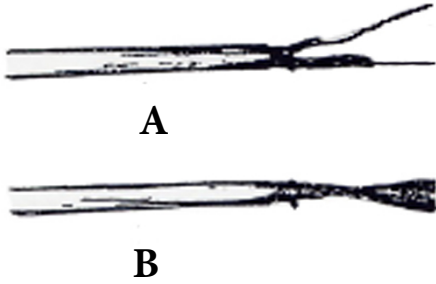
- 10 -

Which staircase would take less room?  
(If equal, mark C)



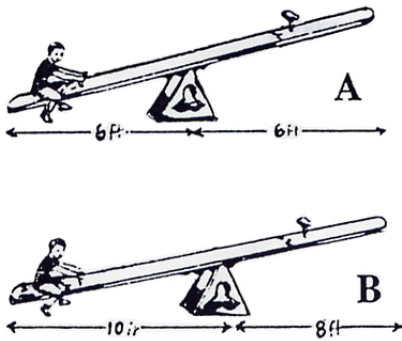
- 11 -

At which point will the wheels press most heavily on the track?



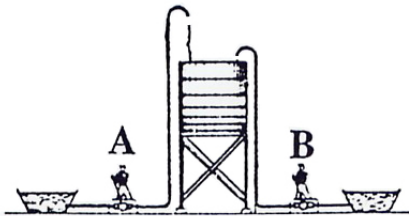
- 12 -

Which of these is an ordinary electric light cord?  
(If both, mark C)



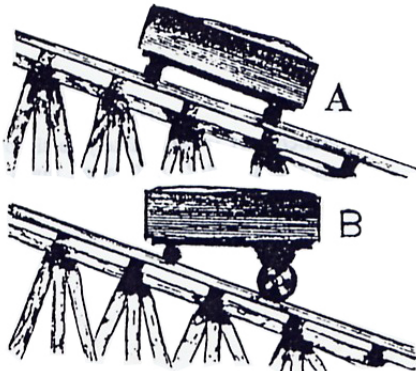
- 13 -

If the two boys weigh the same, which of them can balance a heavier boy on the other end of his see-saw?  
(If equal, mark C)



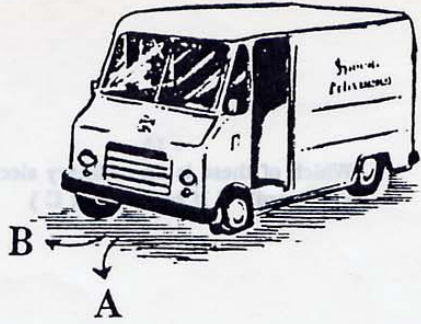
- 14 -

Which man will do more work in pumping 10 gallons of water into the tank?  
(If equal, mark C)



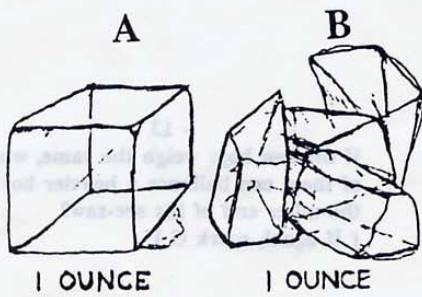
- 15 -

Which car will stand still on the incline?  
(If neither, mark C)



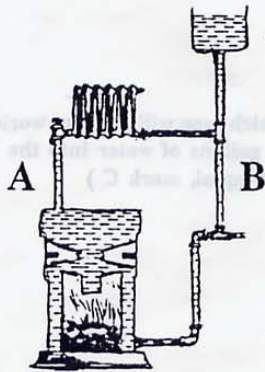
- 16 -

In which direction is the track more likely to go off the road?  
(If equal, mark C)



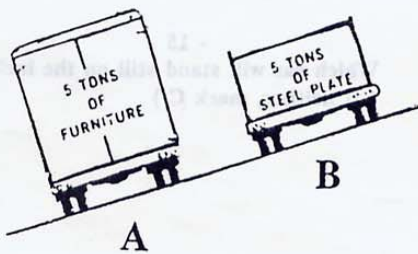
- 17 -

Which ounce of ice will cool a drink more quickly?  
(If equal, mark C)



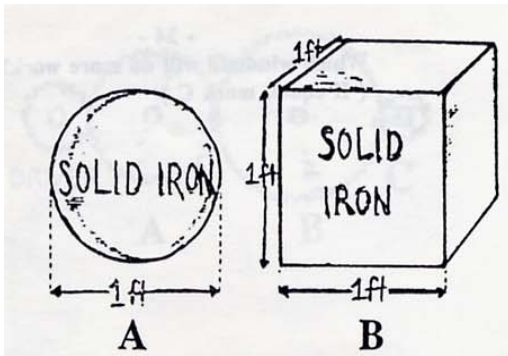
- 18 -

Which pipe contains the cooler water?  
(If equal, mark C)



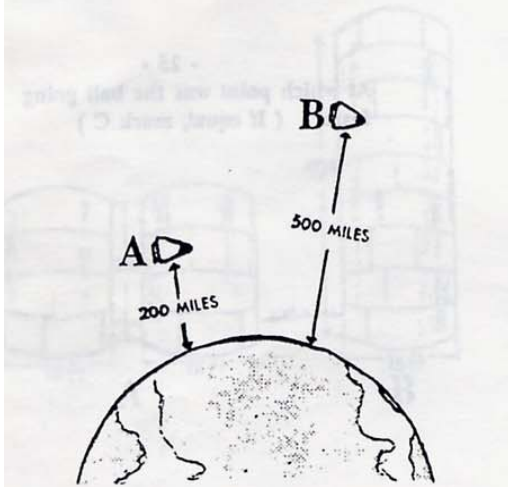
- 19 -

Which car is more likely to tip over on the hillside?  
(If equal, mark C)



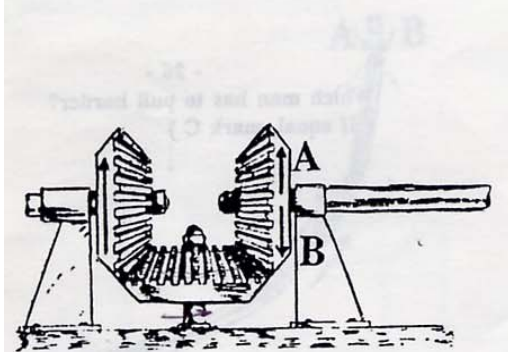
- 20 -

Which weighs more?  
(If equal, mark C)



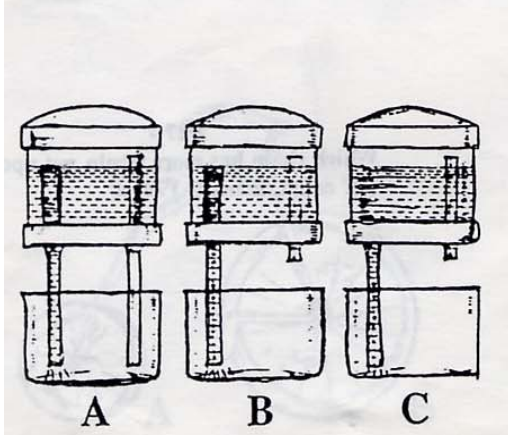
- 21 -

Which satellite will go around the world in less time?  
(If equal, mark C)



- 22 -

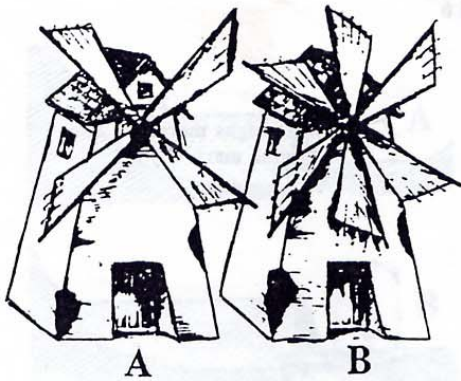
In the left-hand gear moves in the direction shown, in which direction will the right-hand gear move?  
(If either, mark C)



- 23 -

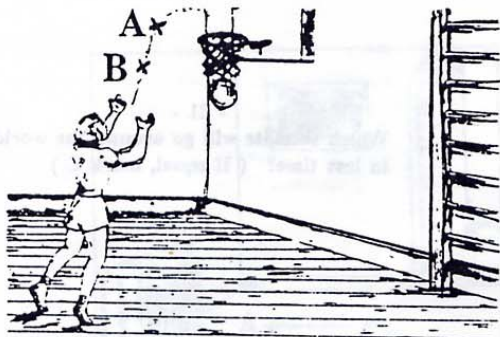
Which jar will let the most water run out?





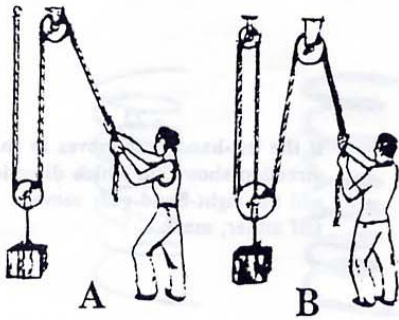
- 24 -

Which windmill will do more work?  
(If equal, mark C)



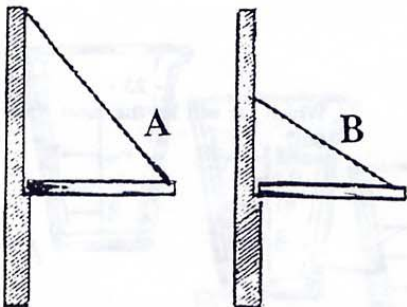
- 25 -

At which point was the ball going faster?  
(If equal, mark C)



- 26 -

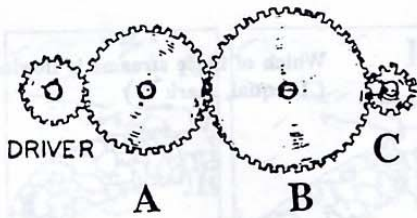
Which man has to pull harder?  
(If equal, mark C)



- 27 -

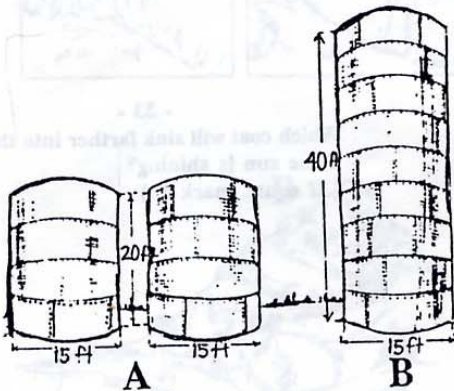
Which chain has more strain put upon it?  
(If equal, mark C)





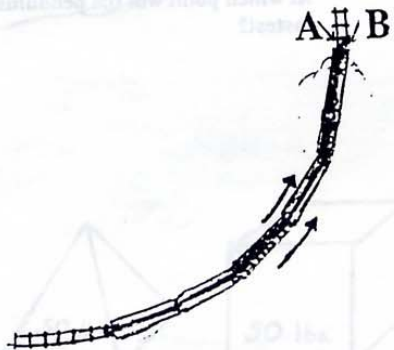
- 28 -

Which gear will make the most turns in a minute?



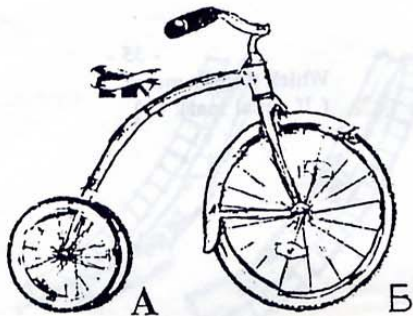
- 29 -

Which will hold more water, the two tanks at A or the one tank at B?  
(If equal, mark C)



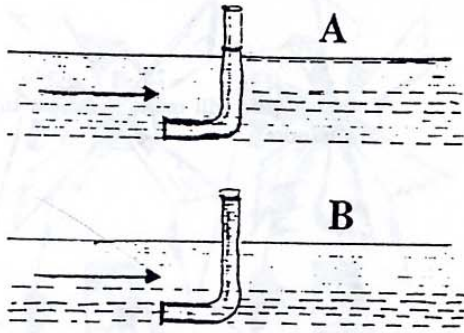
- 30 -

If the track is exactly level, on which rail does more pressure come?  
(If equal, mark C)



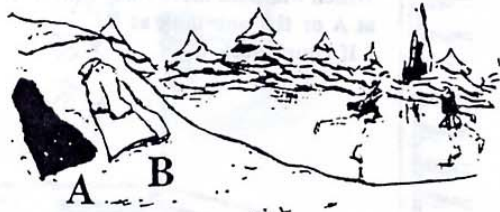
- 31 -

Which wheel turns around more times in going a block?  
(If equal, mark C)



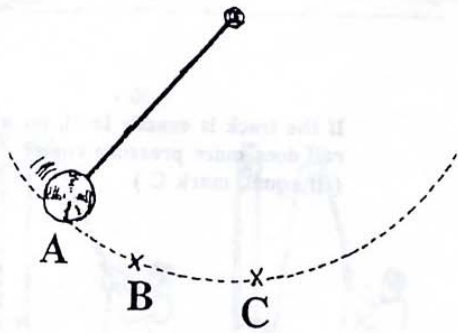
- 32 -

Which of these streams is flowing faster?  
(If equal, mark C)



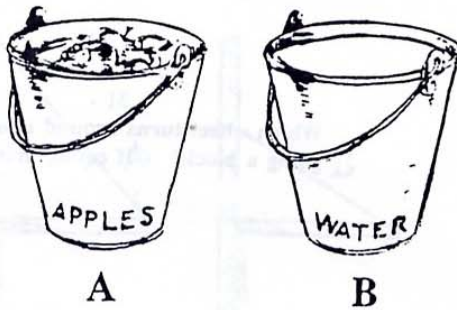
- 33 -

Which coat will sink farther into the snow if the sun is shining?  
(If equal, mark C)



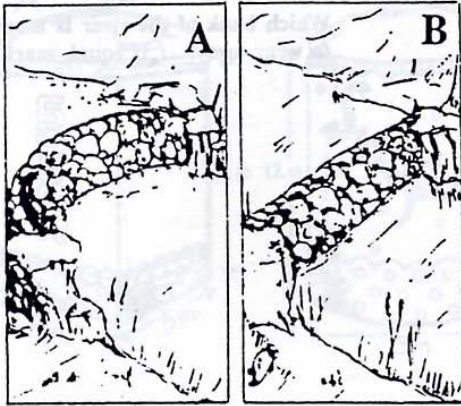
- 34 -

At which point will the pendulum be going fastest?



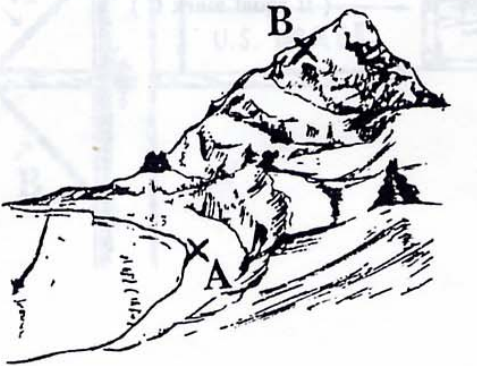
- 35 -

Which weighs more?  
(If equal, mark C)



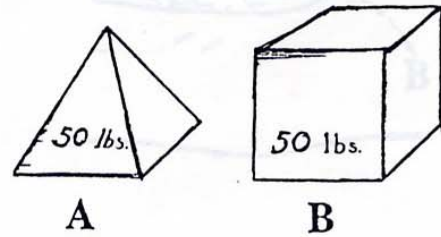
- 36 -

Which shape dam is stronger?  
(If equal, mark C)



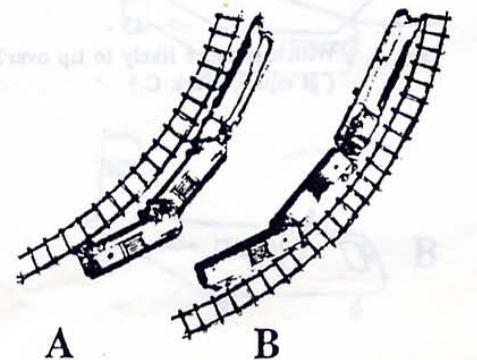
- 37 -

At which spot will it take longer to cook potatoes by boiling?  
(If equal, mark C)



- 38 -

Which of these solid blocks will be the harder to tip over?  
(If equal, mark C)



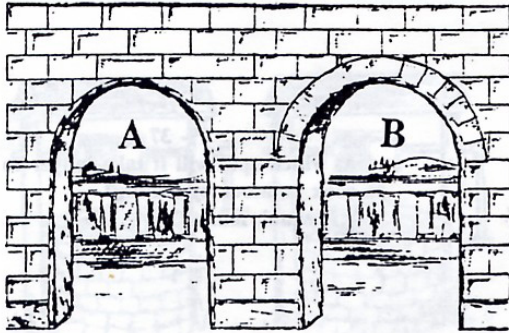
- 39 -

Which of these is the more likely picture of a train wreck?  
(If equal, mark C)



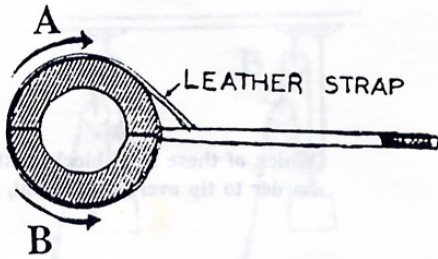
- 40 -

Which bank of the river is more likely to wear away?  
(If equal, mark C)



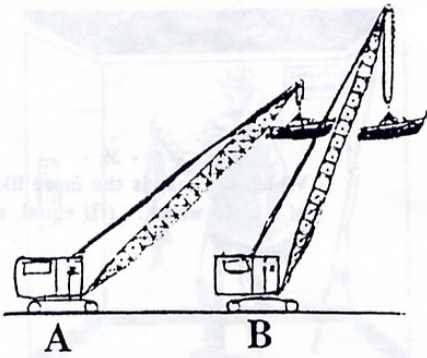
- 41 -

Which arch is stronger?  
(If equal, mark C)



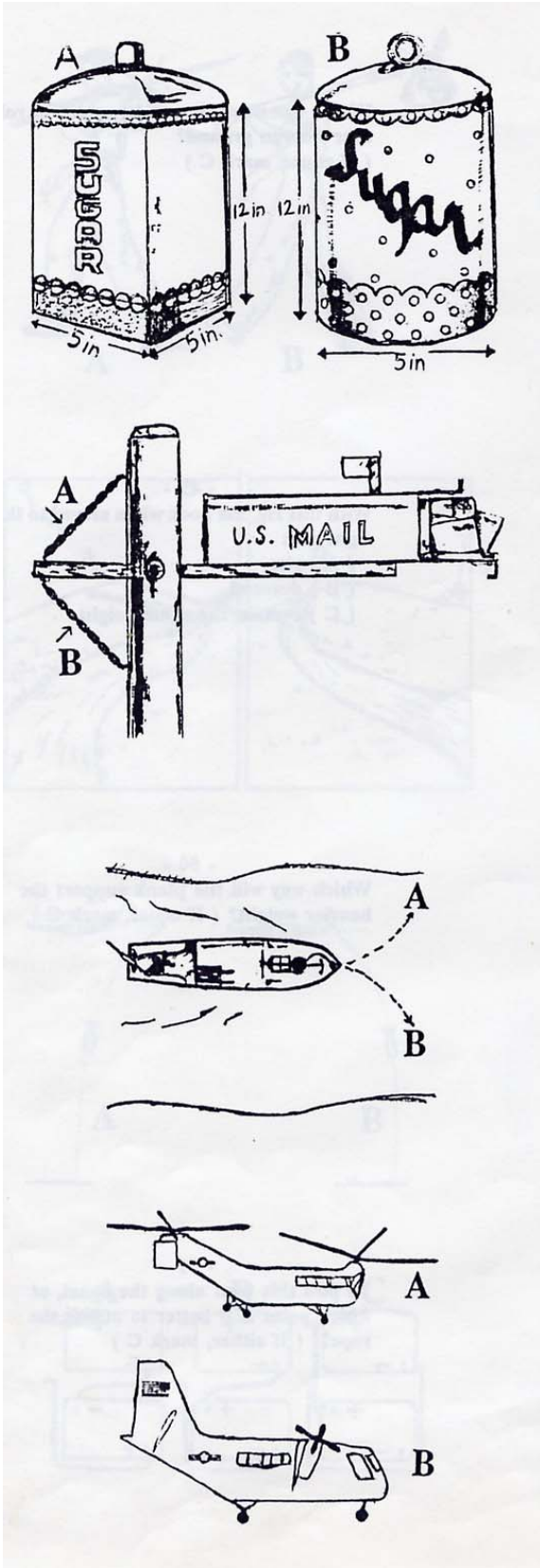
- 42 -

In which direction can this wrench turn the pipe?  
(If equal, mark C)



- 43 -

Which is more likely to tip over?  
(If equal, mark C)



- 44 -

Which metal container will hold more sugar?  
(If equal, mark C)

- 45 -

Which one piece of chain will hold up the mailbox shelf?  
(If equal, mark C)

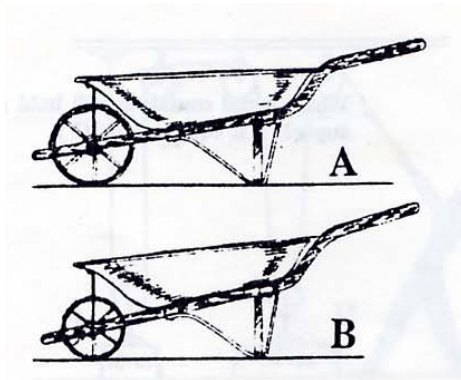
- 46 -

Which way will the boat go?  
(If equal, mark C)

- 47 -

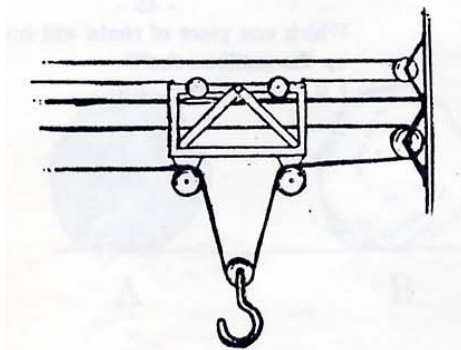
Which of these would lift off from the surface of the moon?  
(If neither, mark C)





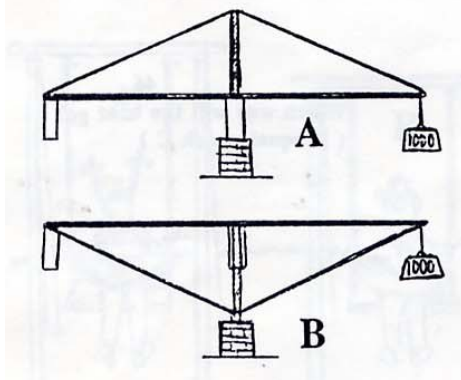
- 48 -

Which wheelbarrow will be easier to roll over uneven ground?  
(If equal, mark C)



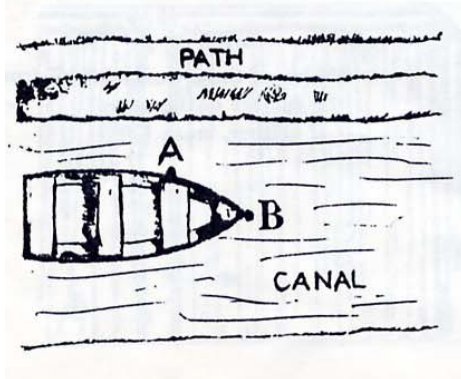
- 49 -

With this rig, the hook when moved to the right will:  
(A) rise  
(B) descend  
(C) remain the same height



- 50 -

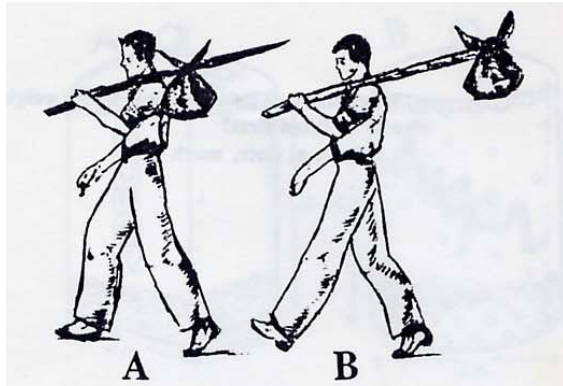
Which way will the plank support the heavier weight?  
(If equal, mark C)



- 51 -

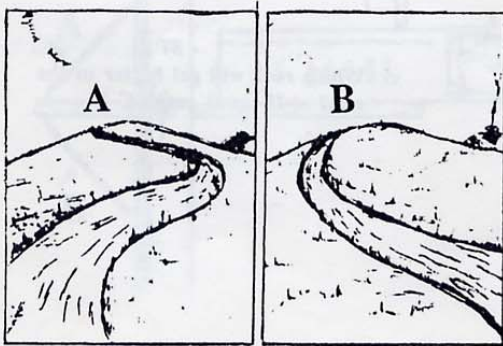
To pull this boat along the canal, at which point is it better to attach the rope?  
(If either, mark C)





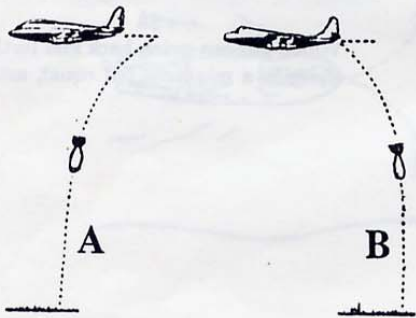
- 52 -

Which way will the bundle be easier to carry?  
(If equal, mark C)



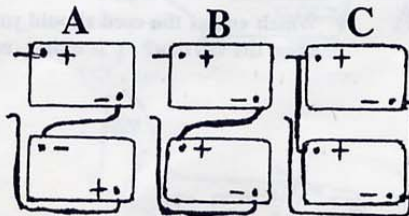
- 53 -

Which path is steeper?  
(If equal, mark C)



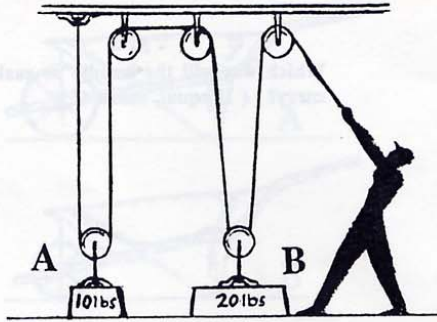
- 52 -

Which picture shows the way a bomb falls from a moving airplane if there is no wind?  
(If equal, mark C)



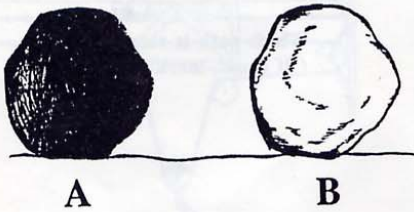
- 53 -

Which way should two 6-volt batteries be connected to give 12 volt?  
(If equal, mark C)



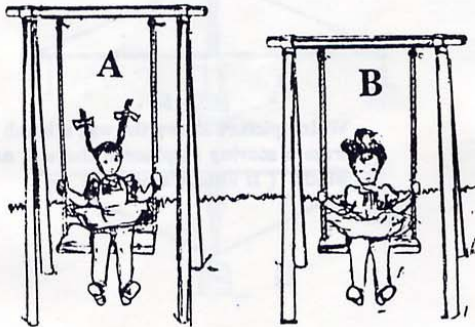
- 56 -

When the man pulls the rope which weight will be lifted first?  
(If both at once, mark C)



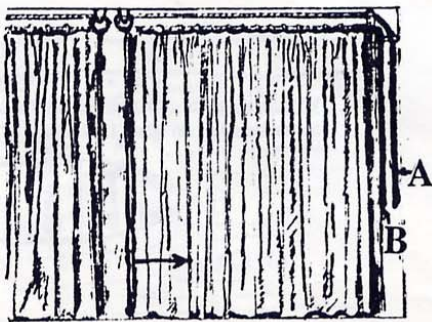
- 57 -

Which rock will get hotter in the sun?  
(If equal, mark C)



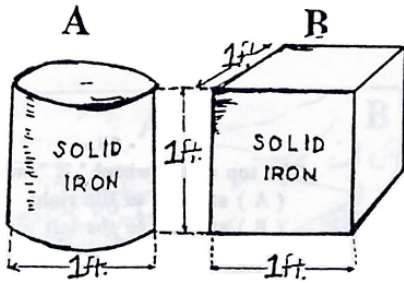
- 58 -

Which girl can swing back and forth more times in a minute?  
(If equal, mark C)



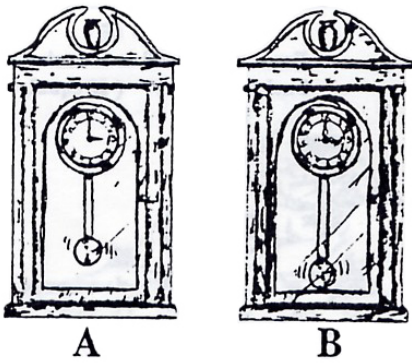
- 59 -

Which end of the cord should you pull to open the curtain?  
(If either, mark C)



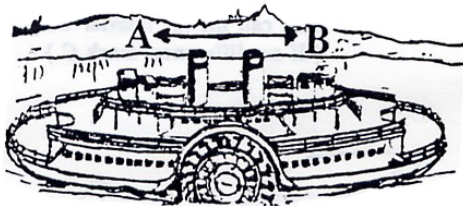
- 60 -

Which weighs more?  
(If equal, mark C)



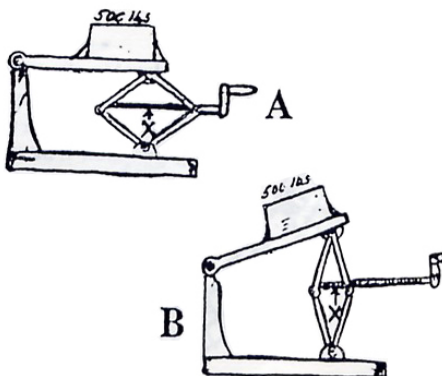
- 61 -

Which of these clocks will tick faster?  
(If equal, mark C)



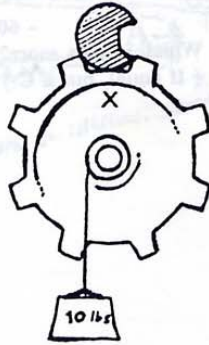
- 62 -

In which direction will the boat go faster?  
(If equal, mark C)



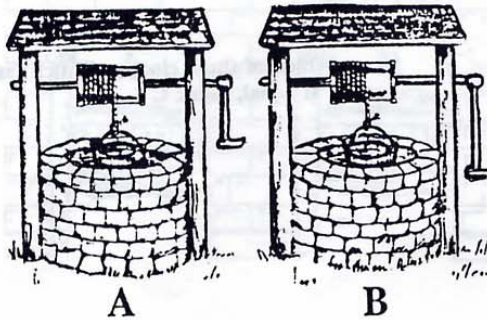
- 63 -

In which position is there more strain on "X"?  
(If equal, mark C)



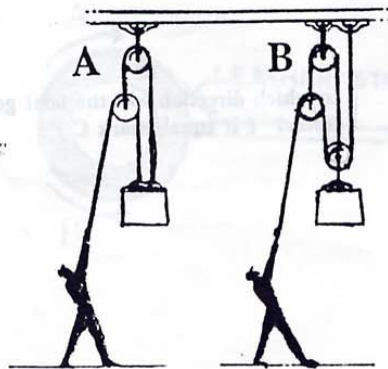
- 64 -

The top of the wheel "X" will go:  
(A) steadily to the right  
(B) steadily to the left  
(C) by jerks to the left



- 65 -

From which well is it easier to raise a bucket of water?  
(If equal, mark C)



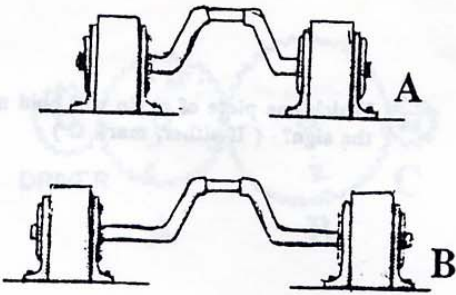
- 66 -

Which picture shows the way in which the man can lift the heavier weight?  
(If no difference, mark C)



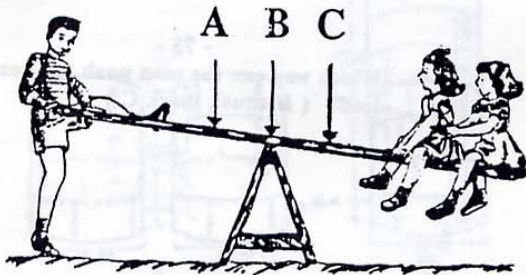
- 67 -

When the elevator starts to rise how will the scales show the weight of the fish:  
(A) heavier than true weight  
(B) lighter than true weight  
(C) same as true weight



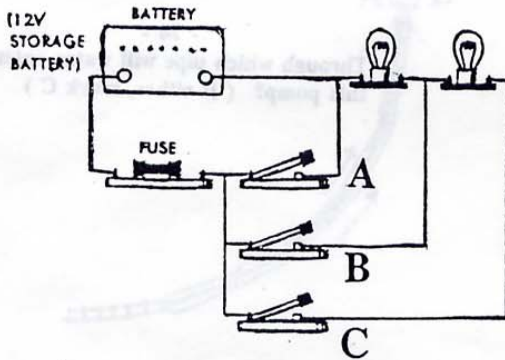
- 68 -

Which crank will handle a heavier load?  
(If equal, mark C)



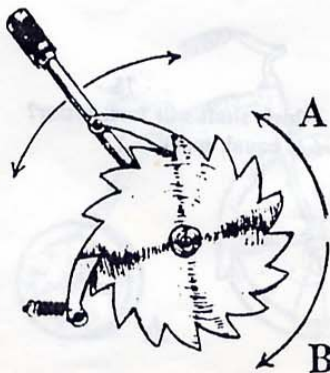
- 69 -

At which point is the seesaw most likely to break?



- 70 -

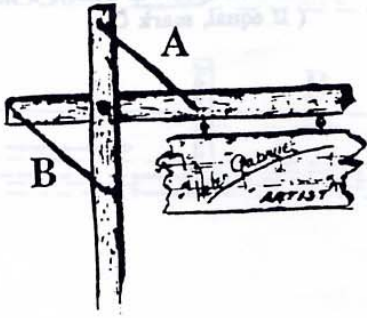
Which switch will light both lamps?



- 71 -

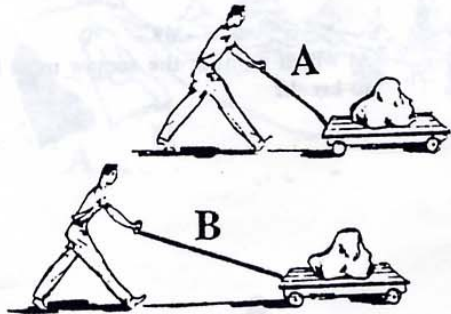
When the handle is moved back and forth the wheel will turn:  
(A) in direction A  
(B) in direction B  
(C) first one way and then the other





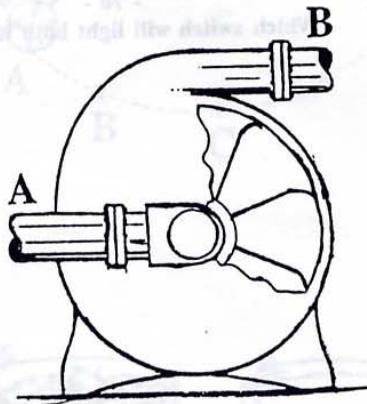
- 72 -

Which one piece of chain will hold up the sign?  
(If equal, mark C)



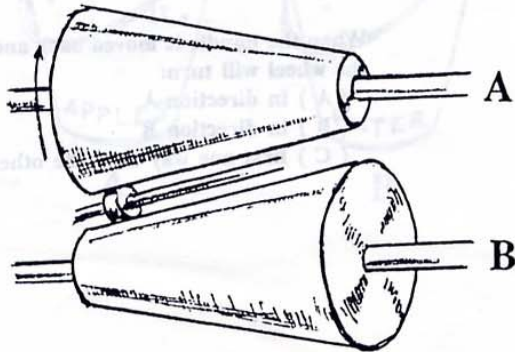
- 73 -

Which way can the man push the heavier load?  
(If equal, mark C)



- 74 -

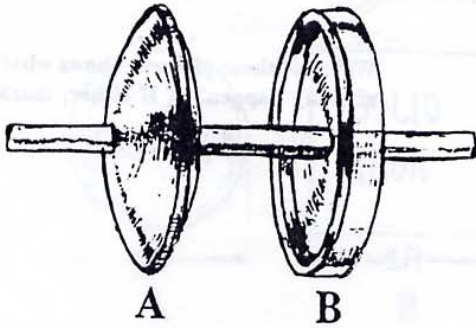
Through which pipe will water enter this pump?  
(If either, mark C)



- 75 -

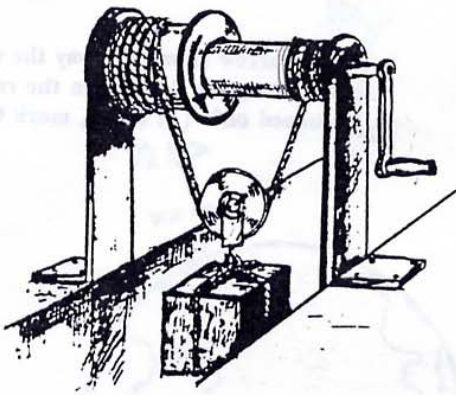
Which shaft will turn faster?  
(If equal, mark C)





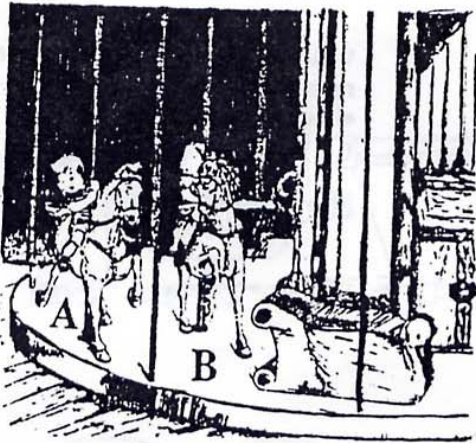
- 76 -

Which wheel is more likely to fly apart if it is spun at high speed?  
(If equal, mark C)



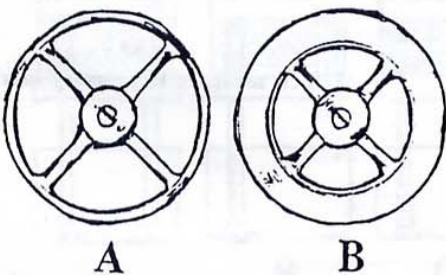
- 77 -

If the windlass is turned in the direction shown, the load will:  
(A) move up  
(B) move down  
(C) not move



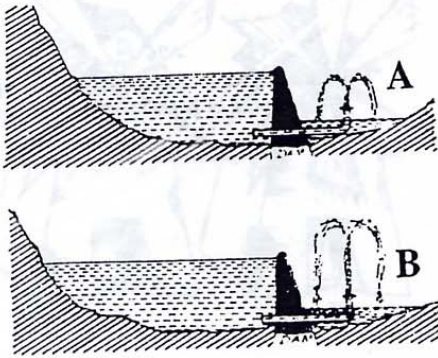
- 78 -

Which child will ride faster?  
(If equal, mark C)



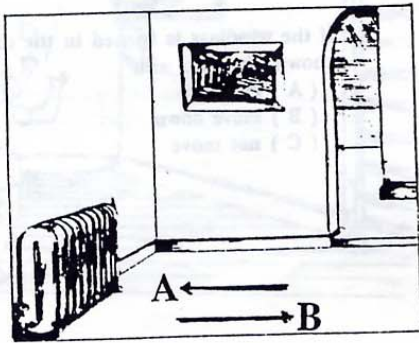
- 79 -

Which wheel will keep going longer after the power has been shut off?  
(If equal, mark C)



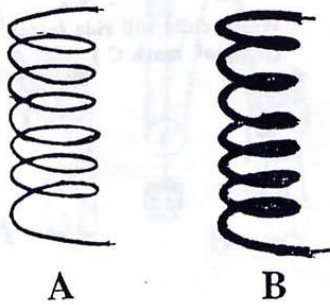
- 80 -

Which of these pictures shows what would actually happen?  
(If either, mark C)



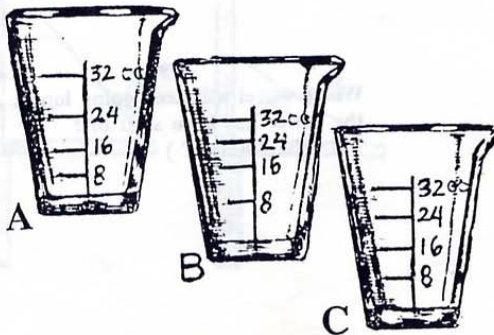
- 81 -

Which arrow shows the way the air will move along the floor when the radiator is turned on?  
(If either, mark C)



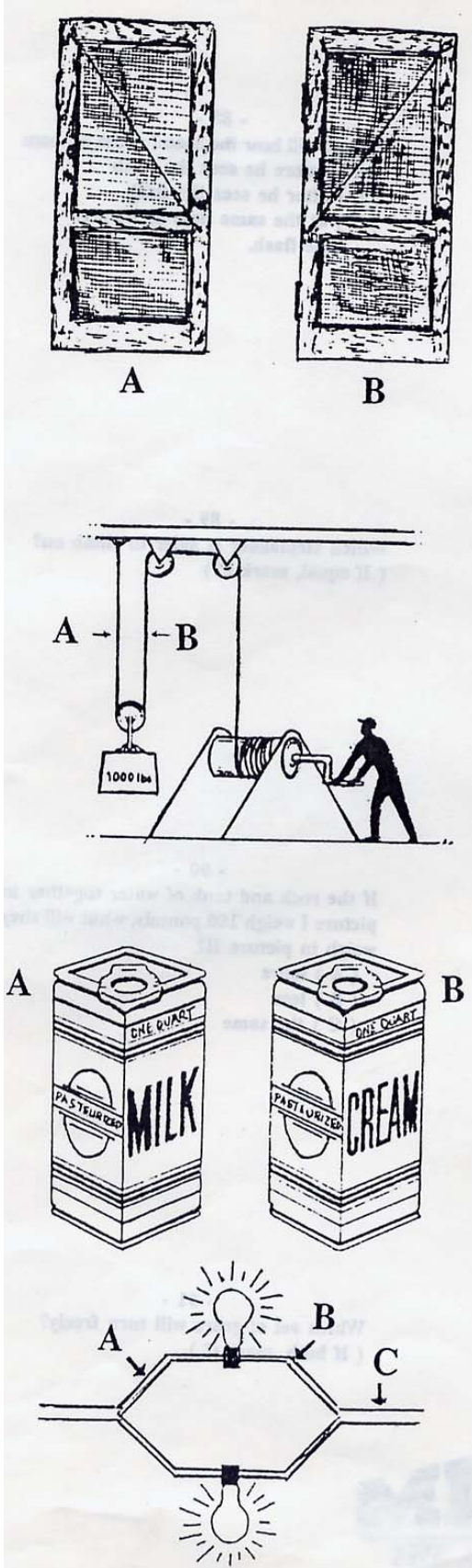
- 82 -

Which of these wires offers more resistance to the passage of an electrical current?  
(If equal, mark C)



- 83 -

Which measure is properly marked?



- 84 -

Which is the better way to brace a screen door to keep it from sagging?  
(If equal, mark C)

- 85 -

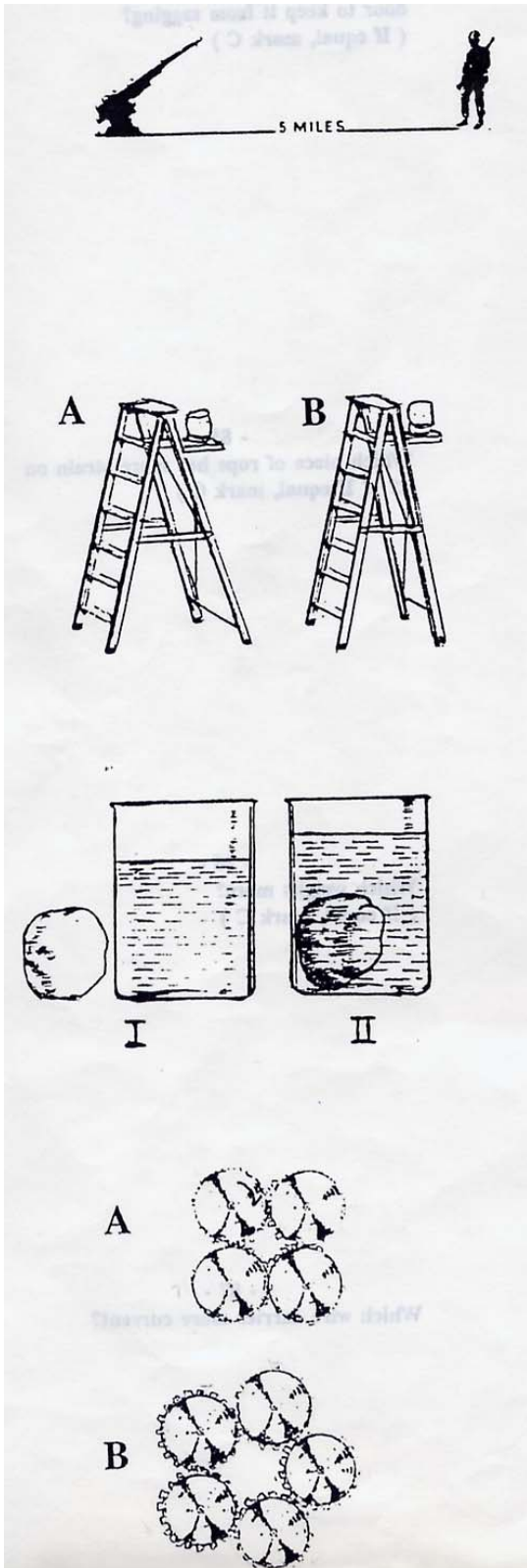
Which piece of rope has more strain on it?  
(If equal, mark C)

- 86 -

Which weighs more?  
(If equal, mark C)

- 87 -

Which wire carries more current?



- 88 -

The man will hear the sound of the cannon?

- (A) before he sees the flash
- (B) after he sees the flash
- (C) at the same time as he sees the flash

- 89 -

Which stepladder is safer to climb on?

(If equal, mark C)

- 90 -

If the rock and tank of water together in picture I weigh 100 pounds, what will they weigh in picture II?

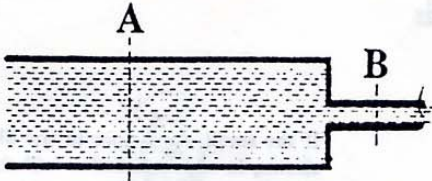
- (A) more
- (B) less
- (C) the same

- 91 -

Which set of gears will turn freely?

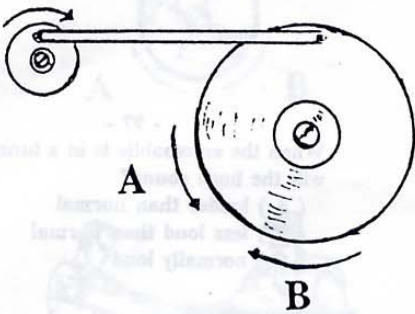
(If both, mark C)





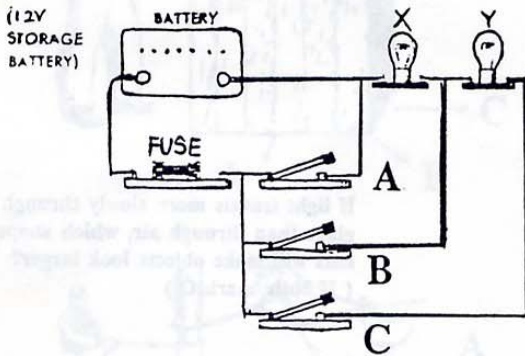
- 92 -

Past which point will more water pass in one minute?  
(If equal, mark C)



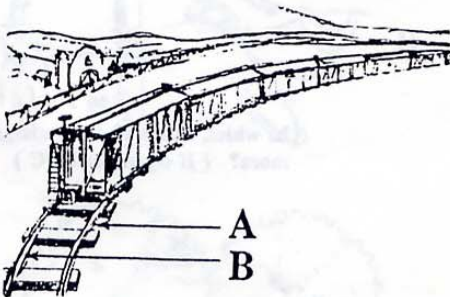
- 93 -

When the little wheel turns around,  
the big wheel will:  
(A) turn in direction A  
(B) turn in direction B  
(C) move back and forth



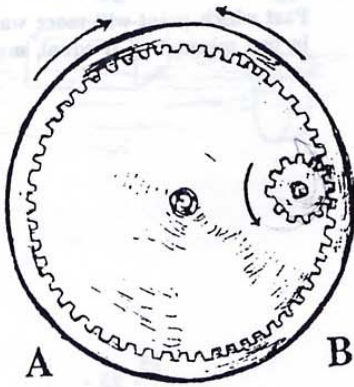
- 94 -

Which switch will light only lamp "X"?



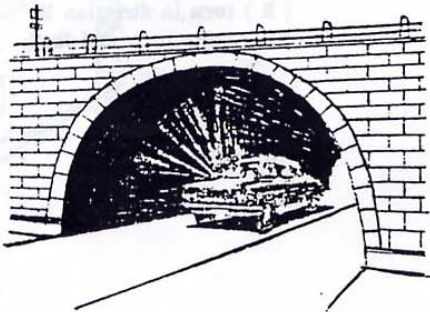
- 95 -

Which rail should be built higher?  
(If equal, mark C)



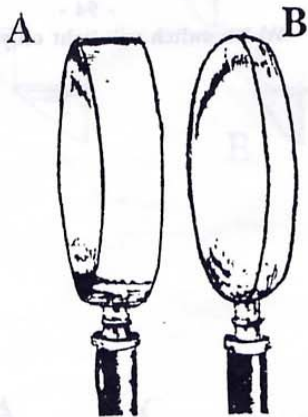
- 96 -

If the small wheel goes in the direction shown, in which direction will the large wheel go?  
(If equal, mark C)



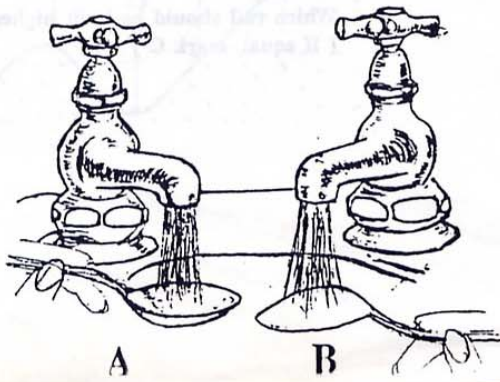
- 97 -

When the automobile is in a tunnel, how will the horn sound?  
(A) louder than normal  
(B) less loud than normal  
(C) normally loud



- 98 -

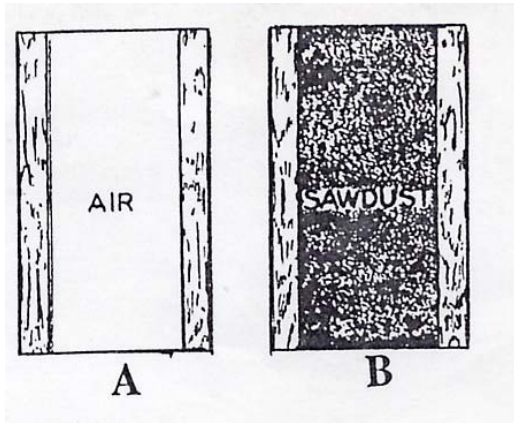
If light travels more slowly through glass than through air, which shape lens will make objects look larger?  
(If both, mark C)



- 99 -

In which case will the water splash more?  
(If equal, mark C)





- 100 -

Which will keep a house warmer in winter?  
(If equal, mark C)

END OF TEST