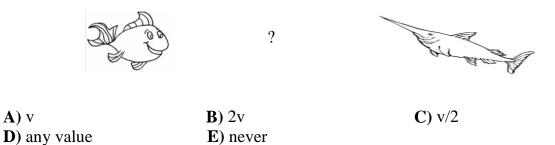
INTERNATIONAL KANGAROO SCIENCE CONTEST

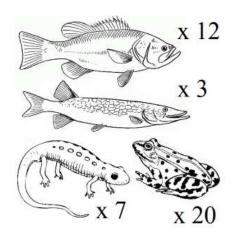
1. Half-way between a fish and an attacker there is a small hiding place. The fish is swimming with a speed v along the river's current. The speed v is half of the speed of the attacker. What should be the minimum river current's speed which will allow the fish to escape?



2. A thermometer with liquid, incorrectly calibrated, is inserted in a mixture of water and ice and it indicates -5°C. When inserted in the vapours of boiling water, it shows 120°C. What value indicates the thermometer when it is placed in contact with a body having a temperature of 40°C?

A) 40^{0} C	B) 50^{0} C	$C) 45^{0}C$
D) 55° C	E) 70^{0} C	

3. In a river there are 12 carps, 3 pikes, 20 frogs and 7 newts. How many atria with oxygenated blood do they have together?



A) 42 **B**) 27 **C**) 15 **D**) 32 **E**) 35

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4.	4. The stem has terminal and lateral buds. If a terminal bud is sectioned, the plant:				
	 A) does not grow talle B) does not grow talle C) grows taller, but d D) grows taller and b E) fades because it ca 	er and does not branch out oes not branch out ranches out			
5.	You went riding your bike. In the first hour, your average speed was of 10 km/ hour, for next two hours 7 km/ hour. Then you took 3 hours to retur to your departure location. We was your average speed when you returned?				
	A) 4 km/h D) 24 km/h	B) 8 km/hE) another value	C) 17 km/h		
6.	6. What group do bats belong to?				
	A) birdsD) reptiles	B) insects E) rodents	C) mammals		
7.	7. Where does sound travel fastest?				
	A) woodD) water	B) spaceE) air	C) glass		
8.	When walking along an asphalt street after sundown, a person often feels heat coming off pavement. The heat is moving from the asphalt to the person by			e	
	A) conduction	B) convection	C) expantion		

E) contraction

D) radiation

INTERNATIONAL KANGAROO SCIENCE CONTEST

9. What is the main reason for using sand on icy roads?



- A) to create friction between car wheels and the road
- **B**) to reduce the glare of headlights or sunlight
- C) to help melt the ice covering the road
- **D**) to dry the road
- **E**) to make road more visible
- **10.** The table lists the volume and the mass of five substances. Which substance has the lowest density?

Substance	Volume(cm ³)	Mass (g)
brick	71	100
ice	109	100
water	100	100
vax	56	100
honey	70	100

A) brick

B) ice

C) water

D) vax

E) honey