**10 Years of Excellence**

1) The ratio of the speed of a boat downstream and speed of the stream is 9:1. If the speed of the current is 3 km per hr, find the distance travelled by the boat upstream in 5 hours.
a) 100 km
b) 98 km
c) 109 km
d) 105 km

2) Equal distance is covered by a boat in upstream and in downstream in total 5 hours. Sum of speed of a boat in upstream and downstream is 40 km/hr. Speed of boat in still water is 600% more than the speed of stream. Find theapproximate distance covered by boat in downstream (in km).
a) 45
b) 50
c) 55
d) 60

3) Sravan drove from home to a neighboring town at the speed of 50 km/h and on his returning journey, he drove at the speed of 45 km/h and also took an hour longer to reach home. What distance did he cover?
a) 350 kms
b) 450 kms
c) 900 kms
d) 700 kms

4) A boat takes 27 hrs to travel a distance upstream and takes 9hrs to travel the same distance downstream. If the speed of the boat in still water is 12km/hr, then what is the velocity of the stream?
a) 4km/hr
b) 6km/hr
c) 8km/hr
d) 10km/hr

5) A boat covers 12 km upstream and 18km downstream in 3hrs while it covers 18 km upstream and 12km downstream in 3(1/4) hrs the velocity of the the boat upstream and downstream?
a) 12km/hr
b) 14km/hr
c) 16km/hr
d) 18km/hr

6) If a boy rows 8 km downstream in 6 hours and 4 km upstream in 4 hours then how long will he take to cover 16 km in stationary (still) water?
a) 8
b) 14
c) 22
d) 16

7) A boat takes 24 hours to cover 128 km downstream and 16 hours to cover 64 km upstream. Then the speed of the boat in still water is:
a) 14/3
b) 8/7
c) 3/2
d) 9/5

8) A boatman can take the same time to row6.5km downstream and 3.5km upstream. His speed in still water 2.5 km/hr. The speed of the stream is:
a) 0.75km/hr
b) 2.5km/hr
c) 1.5km/hr
d) 7.5km/hr

9) A boat goes 3.5km upstream in 24 mins and the speed of the stream is 1.5km per hour, then the speed of the boat in still water is.
a) 5.25kmph
b) 7.25kmph
c) 10.25kmph
d) 12.25kmph

10) A boat man lakes 5hrs 30 mins to row a boat 30km downstream of a river and 4 hrs 15mints to cover a distance of 10km upstream. Find the speed of the river current in km/hr.
a) 1kmph
b) 1.5kmph
c) 2.0kmph
d) 2.5kmph

11) A man can row 4 km against the stream in 40mins and return in 36mins. Find the rate of current.
a) 1/3kmph
b) 2/3kmph
c) 4/3kmph
d) 5/3kmph

12) Sakthi rows a boat at 4 km upstream in 1hour and 1 km downstream in 20 minutes. How long will he take to reach 3.5km in still water?
a) 1
b) 2
c) 3
d) 4

13) A motor boat sails 30 km of a river towards upstream in 10hrs. How long will it take to cover the same distance downstream, if the speed of the current is ½ of the speed of the boat in still water.
a) 1.8hr
b) 3.33hr
c) 5hr
d) 4.33hr

14) Mohana can row 80km upstream and 110km downstream in 26 hrs. Also she can 60km upstream and 88km downstream in 20 hrs. Find the speed of the girl in still water and the speed of the current in ratio:
a) 5:6
b) 3:7
c) 7:9
d) 8:3

15) A motorboat running upstream takes 4 hrs 24 mins to cover a certain distance, while it takes 2hrs to cover the same distance running downstream. What is the ratio between the speed of the boat and speed of the water current respectively?
a) 8:3
b) 5:2
c) 3:7
d) 2:4

16) A person can swim in water with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, what will be the time taken by the person to go 68 km downstream?
a) 1hr
b) 2hr
c) 3hr
d) 4hr

17) In one hour, a boat goes 13 km/hr in the direction of the stream and 7 km/hr against the direction of the stream. What will be the speed of the boat in still water?

a) 10km/hr          b) 20km/hr
c) 30km/hr          d) 40km/hr

**18)** A woman can row upstream at 16 km/hr and downstream at 26 km/hr. What is the speed of the stream?
a) 1km/hr          b) 5km/hr
c) 3km/hr          d) 9km/hr

**19)** A man can row downstream at the rate of 24 Kmph and upstream at 7 Kmph. Find the man's rate in still water and rate of current?
a) 15.5 Kmph, 8.5 Kmph
b) 17 Kmph, 8.5 Kmph
c) 814 Kmph, 7 Kmph
d) None of these

**20)** A man can row 24 kmph in still water. It takes him thrice as long to row up as to row down the river. Find the rate of the stream?
a) 4 kmph          b) 12 kmph
c) 6 kmph          d) 1 kmph

**21)** In a stream running at 2 Kmph, a motor boat goes 10 Km upstream and back again to the starting point in 55 minutes. Find the speed of motor boat in still water?
a) 18 kmph          b) 22 kmph
c) 16 kmph          d) 20 kmph

**22)** In an hour a boat goes 10 Km along the stream and 4 Km against the stream. The speed of the boat in still water (in Kmph) is:
a) 7 Kmph          b) 8 Kmph
c) 6 Kmph          d) 10 Kmph

**23)** A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is:
a) 2:01          b) 3:01
c) 3:05          d) 3:02

**24)** Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:
a) 16 hours          b) 18 hours
c) 20 hours          d) 24 hours

**25)** A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?
a) 40 minutes          b) 1 hour
c) 1 hr 15 min          d) 1 hr 30 min

**26)** A boat covers a certain distance downstream in 1 hour, while it comes back in 1 1/2 hours. If the speed of the stream
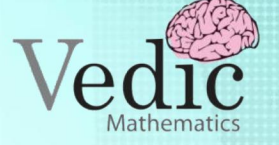
be 3 kmph, what is the speed of the boat in still water?

a) 12 kmph      b) 13 kmph
c) 14 kmph      d) 15 kmph

a) 4 km/hr      b) 6 km/hr
c) 8 km/hr      d) Data inadequate

27) A man can row at 5 kmph in still water. If the velocity of current is 1 kmph and it takes him 1 hour to row to a place and come back, how far is the place?

a) 2.4 km      b) 2.5 km
c) 3 km      d) 3.6 km

28) A boat takes 90 minutes less to travel 36 miles downstream than to travel the same distance upstream. If the speed of the boat in still water is 10 mph, the speed of the stream is:

a) 2 mph      b) 2.5 mph
c) 3 mph      d) 4 mph

29) The speed of a boat in still water is 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is:

a) 1.2 km      b) 1.8 km
c) 2.4 km      d) 3.6 km

30) A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream, it takes 4 hours. What is the speed of the boat in still water?