RACES

1) In a kilometre race, A beats B by 5 seconds or 40 metres. How long does B take to run the kilometre?

(a) 130 secs (b) 125 secs (c) 135 secs (d) 140 secs

2) A runs 2.33 times as fast as B. If A gives B a start of 60 metre, how far must be the winning post, so that the race ends in a dead heat?

(a) 105 m (b) 110 m (c) 115 m (d) 120 m

3) A can run a kilometre in 3 minutes 10 seconds and B in 3 minutes 20 seconds. By what distance can A beat B?

(a) 25 m (b) 50 m (c) 15 m (d) 10 m

4) A and B take part in a 100 metres race. A run at 5km/h. A gives B a start of 8 metres and still beats him by 8 seconds. Find the speed of B?

(a) 4.14 km/h (b) 5.14 km/h (c) 6.14 km/h (d) 7.14 km/h

5) A can run 100 metres in 11 secs and B can run 100 metres in 12 secs. What start can be given to B to make the race a dead heat?

(a) 7 m (b) 8.33 m (c) 9 m (d) 10.33 m

CLOCKS

1) At what time between 5 and 6 are the hands of a clock coincident?

(a) 27.27 min past 5 (b) 28.28 min past 5 (c) 26.26 min past 5

2) At what time between 4 and 5 will the hands of a watch point in opposite direction?

(a) 54.54 min past 4 (b) 55.55 min past 4 (c) 56.56 min past 4

3) At what time between 4 and 5 will both the hands of a clock be at right angles?

(a) 38.18 min past 4, 5.45 min past 4 (b) 39.19 min past 4, 5.45 min past 4

(c) 38.18 min past 4, 6.45 min past 4

4) At what time between 5 and 6 are the hands of a clock 7 minutes apart?

(a) 34.90 min and 19.63 min past 5 (b) 35.60 min and 20.63 min past 5

5) The minute hand of a clock overtakes (or coincides) the hour hand at intervals of 65 minutes of correct time. How much does the clock gain or lose in 12 hours?

(a) 5.03 min (b) 6.03 min (c) 7.03 min