1) A racing pigeon that was released at 12:00 noon reached its home loft at 2:30pm the same day having flown a distance of 200km. What was the pigeon's average speed in kilometers per hour?

A) 40 B) 50 C) 80 D) 100 E) 160

1)
$$t=2.5 hvs$$

 $d=200 km$
 $d=c.t$
 $t=\frac{d}{t}=\frac{200}{2.5}=80 \frac{km}{hr}$ (C)

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2) A car travels 180km from A to B at 60km/hr and returns from B to A along the same route at 90km/hr. The average speed in km/hr for the round trip is

2)
$$d_{A0} = 180 \text{ km}$$

 $f_{=} = 60 \text{ km}$
 $f_{=} = 90 \text{ km}$
 $f_{2} = 90 \text{ km}$
 $f_{3} = \frac{160}{90} = 2$
 $f_{3} = \frac{160}{90} = 2$
 $f_{3} = \frac{160}{90} = 2$
 $f_{3} = \frac{1}{90} = \frac{1}{90} = 2$
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$$B-alt) \qquad r_{1} = 60 \text{ km/m} r_{2} = 90 \text{ km/m} r_{2} = 90 \text{ km/m} r_{3} = \frac{2d}{t_{1} + t_{2}} \qquad r_{2} = \frac{2d}{\frac{3d}{190} + \frac{2d}{180}} = \frac{2d}{\frac{5d}{180}} t_{1} = \frac{d}{60} \quad t_{2} = \frac{d}{90} = 2d \cdot \frac{180}{5d} = \frac{3b0}{5} \quad t_{12} \\ r_{3} = \frac{2d}{\frac{d}{60} + \frac{d}{90}}$$

3) Jordan walked up a mountain at the rate of 2 miles/hr and jogged down the same route at 6 miles/hr. If she traveled a total of 24 miles, how many hours did it take her to complete the entire trip?

(A) 24 (B) 18 (C) 16 (D) 8 (E) 6

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12 miles each very d=rt $vp: t=\frac{12}{2}=6$ have $duvn: t=\frac{12}{6}=2$ have ghours 4) A car travelling at an average rate of 55 km/hr made a trip in 6 hours. If it had traveled at an average rate of 50 km/hr, the trip would have taken how many minutes longer?

(A) 16 (B) 25 (C) 30 (D) 35 (E) 36

4) A car travelling at an average rate of 55 km/hr made a trip in 6 hours. If it had traveled at an average rate of 50 km/hr, the trip would have taken how many minutes longer?

$$d = r \cdot t$$

$$d = 55 \cdot 6 = 330 \text{ km}$$

$$d = r \cdot t$$

$$330 = 50 \cdot t$$

$$6 \cdot 6 = t$$

$$- 36 \text{ min}$$
(E)