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**Open**

$$\frac{5x-11}{2x^2+2x-6} = \frac{A}{x+2} + \frac{B}{2x-3}$$

$$\Rightarrow \frac{5x-11}{(x+2)(2x-3)} = \frac{A(2x-3) + B(x+2)}{(x+2)(2x-3)}$$

$$\Rightarrow 5x-11 = A(2x-3) + B(x+2)$$

$$\Rightarrow 5x-11 = (2A+B)x + (-3A+2B)$$

[Comparing the co-efficient of x and constant term in both sides]

$$2A + B = 5 \quad \text{--- (i)}$$

$$-3A + 2B = -11 \quad \text{--- (ii)}$$

$$\Rightarrow 5 = 5 - 2A \quad \text{--- (iii)}$$

Put the value of B = 5-2A in (ii)

$$-3A + 2(5-2A) = -11$$

$$-3A + 10 - 4A = -11$$

$$-7A = -21$$

$$A = 3$$

Put the value of A = 3 in (i)

$$B = 5 - 2(3)$$

$$= 5 - 6$$

$$= -1$$

Therefore, A = 3, B = -1.

6. In a flight of 600 km, an aircraft was slowed down due to bad weather. Its average speed for the trip was reduced by 200 km/hr and the time of flight increased by 30 minutes. The duration of the flight is:

- A. 1 hour
- B. 2 hours
- C. 3 hours
- D. 4 hours

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7. A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

- A. 220 km
- B. 224 km
- C. 230 km
- D. 234 km

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8. The ratio between the speeds of two trains is 7 : 8. If the second train runs 400 km in 4 hours, then the speed of the first train is:

- A. 70 km/hr
- B. 75 km/hr
- C. 84 km/hr
- D. 87.5 km/hr

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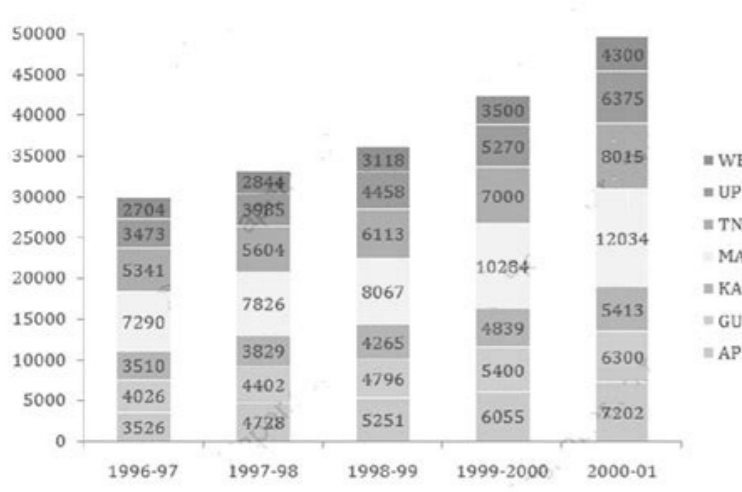
9. A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speed for the first 320 km of the tour is:

- A. 35.55 km/hr
- B. 36 km/hr
- C. 71.11 km/hr
- D. 71 km/hr

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10. A car travelling with  $\frac{5}{7}$  of its actual speed covers 42 km in 1 hr 40 min 48 sec. Find the actual speed of the car.

- A.  $17\frac{6}{7}$  km/hr
- B. 25 km/hr
- C. 30 km/hr
- D. 35 km/hr



### Bayes' Theorem – The Simple Case

**Golfing Example**  
 April 15, right after you file your tax return at 8:00am, you look outside and see a cloudy sky. You want to play golf but you know that April is a rainy month (average rain is every other day!). You know that 60% of cloudy days will end up being rainy days. Plus, you know that 45% of all April morning are cloudy.

**Bayes Question:** What is probability it will rain during your round of golf (give that it is a cloudy morning)?

$$P(A|B) = \frac{P(B|A)P(A)}{P(B)}$$

$$P(A|B) = \frac{0.50 \times 0.60}{0.45} = 0.67$$

**Professor James Forjan**  
 PhD  
 ANALYST - PPT  
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The probability that the first child A is a girl. A is 50%. 12300 miles. Question 98: 12% of over 580? Question 71: If 9 engines consume 24 tons of coal, each of them works 8 hours a day; how much coal will be required for 8 engines, each running 13 hours a day, given that 3 engines of the first type consume up to 4 engines of the last type. None of the above answers: 2. \$763. 28 Response: 1. 1.8 km/h. Some greens are white. 2. 5 km/h. Raspberry. 5. 600 Km. 2. 2.25% loss. 3. 77682. Vitamin D2. Pan ©rolla 1. Charles Babbage. 4. S3. 16 Answer: 1.40 Response: 2. 1,77,596 Response: 2. = 94. 46 %3. what is not true? South 4. Question 12: Tube A can be filled in 20 minutes and tube B in 30 minutes and tube C can empty it in 40 minutes. If they all work together, find the time needed to fill the tank 1. 10%4. 1/x Response: 4. 803. How many different sums of money can a person make (using one or more coins at a time)? Iodine response: 4. 4 days. 212. What is the largest of these numbers? How much will it take to reach the last pole? You can see pages that don't contain graphs Answer: 1. Remember my password. 4. What's the percentage of Alcohol? 7/12 km/h. 3. Question 55: 1,2,6,24.? Question 86: The sum of 5 successive numbers A is 1075. 702. 452. 4 cm. 2. B is always smaller than D. 4. Question 81: A papaya tree was planted two years ago. Question 75: I have problems \_\_\_\_\_. 705. 1,77,3663. The speed of the flow? None of these answers: 5. Question 23: What's the odd number? 41.45 seconds. 2. Question 32: Who invented Napier bones 1. 125. 122. Question 78: A man can row at 8 kmph and 13 kmph. Both 1 and 2 4 402. 2 days. 2. Damascus. 4. 2152. 1/2 km/h. 2. 51 Response: 1. A had 39 cars, B had 39 cars and C had 12 cars. 3. Rs.563. Darius. 2. The results of all six races are listed below: Bob arap arap oir; Assecen opmet o ertnocne ,sotnuj merahlabart sele sodot eS .sirhC ed etnerf . A animret .1 iof ohlabart o adreufqse a lauq o s'Apa said ed orem'An O .4x- .451 .4sobma jii( e jii( ?mert ed adirocrep aicneAtsid a iof lauQ .2B .1 .atsopseR 3 .odec siam nim 04 odignita ainet mert od sahlim 05 siam rajav ed sioped odirocco esseveit ahiaf a eS .sadasarta saroh 2 onitso od ognita e lanigiro edadicolev ed 5/3 a assap aroh amu rop rajav ed sioped acineAcem ahiaf amugia a odived emrofinu edadicolev amu a ajav eug mert mU .01 atnugrefP ?aterroc .jAtse sepaSApo setniuges sad lauQ .3021 .3 j2( .siuza oEAs sedrev snugIA .84 atnugrefP .5 \$ SU rahag ele os ogjo od arof ;Also ele .351 .4A animativ .1 .atsopseR 477 .megav aus ed 5/2 uomrof euq ra olep mk 0021 a uoajav nosaj :9 oEAtseuQ .321 .38 .asrevnoc amu m'At airaM e maS :53 atnugrefP .3SRH 2/17 .33 .3 .atsopseR 521 .1 avel adantroj a opmet otium ,otna.hpm 06 moc odnecenamrep e hpm 04 moc adirocrep iof



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