
UR PERCENTILE

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LESSON P1061
Minutes

Time Limit : 20

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Q1 to Q6 are based on the following information provided about six different kind of digital cameras available in the market.

	Camera 1	Camera 2	Camera 3	Camera 4	Camera 5	Camera 6
Cost in US\$	\$490.00	\$485.00	\$500.00	\$525.00	\$505.00	\$520.00
Battery cost (per set)	\$55.00	\$65.00	\$45.00	\$50.00	\$60.00	\$40.00
Battery Type	Lithium	AA size	Lithium	Lithium	Lithium	Lithium
Battery Life	560 Images	380 Images	460 Images	430 images	400 images	460 Images
Megapixels	4	5.1	5	5.1	5.1	5
Optical Zoom	10 X	3 X	3 X	12X	12X	3 X
Digital Zoom	4 X	2 X	4 X	8X	8X	4 X
CCD Size	1/2.5"	1/2.4"	1/1.8"	1/1.2"	1/1.2"	1/1.8"
Number Of CCD Pixels	4.1 Million	5.3 Million	5.25 Million	5.1 Million	5.1 Million	5.25 Million
Max Focal Length	63 mm	20.1 mm	23.7 mm	28.7 mm	28.7 mm	23.7 mm
Min Focal Length	6.3 mm	6.7 mm	7.9 mm	6.2 mm	6.2 mm	7.9 mm
Maximum Shutter Speed	1/1000 sec	1/1000 sec	1/2000 sec	1/1500 sec	1/1500 sec	1/2000 sec
Minimum Shutter Speed	16 sec	1/8 sec	2 sec	5 sec	5 sec	2 sec
Image Format	JPEG, TIFF	JPEG	JPEG	JPEG	JPEG	JPEG
Minimum Focusing Range	60 cm	48 cm	52 cm	46 cm	49 cm	52 cm
LCD Screen Size	1.5 in	2.5 in	1.5 in	2 in	2 in	1.5 in
Self Timer Delay	12 sec	10 sec	10 sec	8 sec	8 sec	10 sec
Installed Memory	32 MB	64 MB	32 MB	128 MB	128 MB	32 MB
Flash Type	Pop-up	Built-in	Built-in	Pop-up	Pop-up	Built-in
Weight	0.65 lbs	0.34 lbs	0.45 lbs	.50 lbs	.50 lbs	0.55 lbs
Dimension in Inches	2.6x2.3x1.7	2.4x3.6x1.1	2.5*3.4*1.2	2.7*4.1*1.8	2.7*3.3*1.7	2.5*3.4*1.1
Warranty	8 months	12 months	14 months	9 months	10 months	15 months

Q1. I want to buy a camera with 2 set of batteries, with number of CCD pixels more than 4.1 million and having a Built-in flash type. What is the minimum I have to spend ?

Q2. I want to buy a camera having weight less than 0.55 lbs and having minimum focal length less than 6.8mm and maximum focal length more than 24 mm . What is the minimum cost I have to pay for a camera and one set of battery ?

Q3. I want a camera with warranty of more than 8 months and with a minimum focusing range less than 50 mm . What is the minimum I have to pay for a such a camera and 3 set of batteries.

Q4. I want a camera with minimum 64 MB installed memory, self timer delay less than 10 sec and battery life of more than 390 images. What is the minimum I have to spend for a camera and 4 set of batteries.

Q5. I want a camera with maximum volume as 15 cubic inch, a battery life of more than 400 images and optical zoom greater than 3X . What is the minimum I have to pay for such a camera with 2 sets of batteries.

Q6. Let the cost of additional memory of 32MB , 64 MB , 128 MB, 256, and 512 MB be \$40, \$ 70, \$ 120, \$ 200, \$ 320 respectively. I want a camera with 2 sets of batteries and want to have a total memory capacity more than 350 MB. What is the minimum I have to pay if I also want the camera to have a battery life of more than 400 images ?

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Q7 to Q12 are based on the following data about 8 different kind of computers .

	C1	C2	C3	C4	C5	C6	C7	C8
Processor Class	Pentium 4	Celeron	Athlon 64	Pentium 4	PowerPCG5	Celeron	Pentium 4	Pentium 4
Processor Speed	3 GHz	2.6 GHz	2 GHz	3 GHz	2 GHz	2.5 GHz	3.2 GHz	3.2 GHz
Cache Size	1 MB	128 KB	512 KB	512 KB	1 MB	128 KB	512 KB	512 KB
Installed Memory	512 MB	256 MB	512 MB	512 MB	512 MB	256 MB	512 MB	512 MB
Maximum Memory	2 GB	1 GB	1 GB	1 GB	8 GB	1 GB	2 GB	2 GB
Bus Speed	800 MHz	400 MHz	1600 MHz	800 MHz	1 GHz	400 MHz	800 Mhz	800 MHz

Hard Drive Capacity	160 GB	40 GB	160 GB	160 GB	160 GB	40 GB	80 GB	160 GB
CD Read Speed	32 X	48 X	40 X	32 X	32 X	48 X	32X	40 X
CD Write Speed	16 X	48 X	24 X	16 X	16 X	24 X	16 X	16 X
CD Rewrite Speed	12 X	12 X	10 X	10 X	10 X	12 X	16 X	12 X
DVD Read Speed	8 X	12 X	12 X	8 X	12 X	12X	16 X	12 X
DVD Write Speed	4x (DVD)	4x (DVD)	8x (DVD)	4x (DVD)	8x (DVD)	4x (DVD)	4x (DVD)	4x (DVD)
Drive Controllers	IDE	IDE	IDE	IDE	Serial ATA	IDE	SerialATA	IDE
Installed Video Memory	128 MB	129 MB	128 MB	128 MB	64 MB	64 MB	128 MB	128 MB
Modem Speed	56 Kbps	56 Kbps	56 Kbps	56 Kbps	56 Kbps	56 Kbps	56 Kbps	56 Kbps
Weight	26.46 lbs	22.16 lbs	25.41 lbs	24.76 lbs	29.24 lbs	31.24 lbs	32.14 lbs	29.96 lbs
COST (Indian Rs)	44,000	38,000	47,000	46,000	48,000	39,000	42,000	45,000

Q7. I want a non-Pentium computer with bus speed of more than 400 MHz and Installed video memory to be minimum 128 MB. What is the minimum I have to pay ?

Q8. I want a computer with processor speed of more than 2 GHz and Hard drive capacity above 40 GB. The weight of the computer should be less than 30 Lbs. and the CD rewrite speed should be more than 10 X. What is the minimum I have to pay for such a computer?

Q9. I want a computer with Cache size of minimum 512 KB and the Maximum memory to be at least 2 GB. The Hard Drive capacity should be more than 80 GB and it should have 4 X(DVD) as DVD write speed. What is the minimum I have to pay for such a computer?

Q10. I want a Pentium computer with CD rewrite speed more than 10 X and CD read speed more than 32 X. What is the minimum I have to pay.

Q11. I want a computer with processor speed of more than 2.5 GHz and Weight more than 26 lbs. The cache size should be minimum 512 MB. What is the minimum I have to pay for such a computer ?

Q12. I want a computer with Hard Drive capacity more than 40 GB and cache size to be more than 256 MB. It should have a bus speed of more than 800 MHz and have a maximum memory more than 2 GB . What is the minimum I have to pay for such a computer?

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Q13 to Q 18 are based on the following data provided about 9 different kind of mobile phone equipment available in market.

	Phone1	Phone2	Phone3	Phone4	Phone5	Phone6	Phone7	Phone8	Phone9
Digital Camera	Yes	Yes	Yes	No	No	No	Yes	No	Yes
World Wide Web	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No
Mobile Email	Yes	No	Yes	No	No	No	Yes	Yes	No
Phone Book Capacity	1000	600	700	600	800	600	500	900	600
Ring Tones	40	20	34	50	40	64	25	50	35
Voice Dialing	No	Yes	No	Yes	No	Yes	Yes	No	Yes
Number of Games	5	7	3	2	4	3	2	2	8
PC Synchronization	No	Yes	Yes	No	Yes	No	Yes	Yes	Yes
Display Capacity (Lines)	6	4	6	5	8	3	7	8	9
SMS Length (Max Character)	434	654	459	160	320	200	345	459	655
Battery Talk Time (Minutes)	240	800	260	320	310	170	440	280	310
Battery Standby Time (hours)	168	315	200	300	200	279	230	240	310
Battery Recharge Time (Min)	65	75	90	95	90	45	80	90	110
Height	3.5 in	4 in	5.10 in	4.2 in	3.2 in	3.42 in	3.5 in	4.7 in	4 in
Width	1.8 in	1.7 in	2.24 in	1.8 in	1.6 in	1.77 in	1.9 in	2.2 in	1.7 in
Depth	0.9 in	0.7 in	1.00 in	0.7 in	0.9 in	.9 in	0.9 in	0.9 in	0.7 in
Weight	2.3 oz	2.2 oz	4.5 oz	2.19 oz	2.4 oz	3.9 oz	4.1 oz	4.3 oz	2.21 oz
Cost (Converted to Indian Rs.)	9,000	10,000	9,500	13,500	14,500	14,000	10,500	13,000	14,600

Q13. I need a phone with Digital camera and Word Wide web facility and with phone book capacity of at least 550. What is the minimum I have to spend?

Q14. I need a phone with at least 40 ring-tones or at least 4 games. Its battery should have a minimum talk time of 250 Minutes and the weight should be less than 3 oz. What is the minimum I have to spend ?

Q15. I need a phone which occupy minimum possible space and has a battery recharge time less than 89 minutes. What is the minimum I have to pay ?

Q16. I need a phone With PC synchronisation or Digital Camera or both. It should also have a Voice dialing or Mobile email or both. What is the minimum I have to Pay?

Q17. I need a phone with minimum SMS length of 325, battery standby time more than 209 minutes and should not weigh more than 4.2 Oz. What is the minimum I have to pay?

Q18. I need a phone with Height not more than 4 in and width not more than 1.75 in. I also need the phone to have display capacity of more than 5 lines. What is the minimum I have to Pay?

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MATCH THE WORDS IN SET A WITH THEIR MEANINGS IN SET B

SET A Q18. Antiquate, Q19. Curtsy , Q20. Arraign, Q21. Garrulous, Q22 Impetuous, Q23 Mendacious, Q24 Pedigree

SET B

- A. Charge in court.
- B. Lying.
- C. Inopportune display of his learning.
- D. To introduce a subject for discussion that is awkward.
- E. Having a malign influence.
- F. A downward movement of the body by bending knees to show respect.
- G. To make old or out of date.
- H. To talk too much or use many words to express an idea.
- I. Related to agriculture..
- J. To be friendly to someone.
- K. Impulsive acts done without considering the consequences
- L. One's line of ancestors.

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ANSWERS :

Ans 1. Camera 2,3 and 6 meet all the criteria. The minimum cost is \$590 ($500+45+45=590$) for camera 3.

Ans 2. Camera 4 and camera 5 meet the requirements. The minimum cost is \$565 ($505+60$) for Camera 5.

Ans 3. Camera 2, 4 and 5 meet the requirement. The minimum cost is \$675 ($525+50+50+50= 675$) for camera 4.

Ans 4. Camera 4 and 5 meet all the requirement. The minimum amount is \$ 725 ($525+ 4*50= 725$) for camera 4.

Ans 5. Only Camera 1 meets all the requirement. The minimum amount to be paid is \$600 (490+55+55= 600) for camera 1.

Ans 6. Cost of camera + two batteries for the 6 camera is 600, 615, 590, 625 and 600 respectively.

Camera 1,2,3 and 6 require additional memory of 512 to have total memory more than 350 MB. Camera 4 and camera 5 will have more than 350 MB if an additional memory of 256 is available.

Cost of camera 1 with two set of batteries and additional memory = $490+55+55+320=920$

Cost of camera 2 with two set of batteries and additional memory = $485+65+65+320= 935$

Cost of camera 3 with two set of batteries and additional memory = $500+45+45+320= 910$

Cost of camera 4 with two set of batteries and additional memory = $525+50+50+200= 825$

Cost of camera 5 with two set of batteries and additional memory = $505+60+60+200= 825$

Cost of camera 6 with two set of batteries and additional memory = $520+40+320= 920$

The minimum cost will be for camera 4 and 5 which is \$825 , but

camera 5 does not meet the requirement of Battery life. Hence the

answer is camera 4, with expense of 825 ($525+50+50+ 200= 825$)



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Ans 7. Only C3 meets all the criteria, the cost for C3 is 47,000

Ans 8. Computer C1 and C8 meet all the requirements, the minimum cost is for C1 which is 44,000.

Ans 9. Computer C1 and C8 meet all the requirements, but C1 is cheaper than C8. So the minimum I have to spend is 44,000 on C1.

Ans 10. Only computer 8 meets all the requirement which costs 45,000.

Ans 11. C1, C7 and C8 meet all the criteria , but C7 is the cheapest among the three costing 42,000.

Ans 12. Only C5 meets all the criteria and it cost 48,000.

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Ans 13. Phone 1, 2 and 3 meet all the criteria. Out of these 3 , phone 1 is the cheapest and cost 9,000

Ans 14. Phone 4, 5 and 9 meet all the criteria. Out of these Phone 4 costing 13,500 is the cheapest.

Ans 15. Phone 1,2,6 and 7 have battery recharge time less than 89 minutes. Of these 4 you will notice that volume of Phone 5 will be less than the volume of Phone 1 and 7 as its height and width is less than the two and depth is same for all three. Now calculating volume of Phone 2 and Phone 6 we find that Phone 2 occupy less space. Phone 2 costs 10,000.

Ans 16. Phone 1 has Digital camera and thus satisfy the first condition. It also has the Mobile email and so satisfy the second condition as well. It is the cheapest phone available costing 9,000.

Ans 17. Phone 2, 7 and 9 meet all the criteria. Phone 2 is the cheapest of these three costing 10,000.

Ans 18. Phone 5 and 9 meet all the criteria. Phone 5 costing 14,500 is cheaper of the two.

Ans 18=G, Ans 19=F, Ans 20=A, Ans 21=H, Ans 22=K, Ans 23=B, Ans 24=L