



MATHS

BOOKS - SELINA MATHS (ENGLISH)

SHARES AND DIVIDENDS

Questions

1. Calculate the money required to buy :

(i) 350, 20rs shares at a premium of 7rs.

(ii) 275, 60*rs* shares at discount of 10*rs*.

(iii) 50, 40*rs* shares quoted at 38.50*rs*.



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2. Rakhee invested 12500*rs* in shares of a company paying 6% dividend per annum. If she bought 50*rs* shares for 62.50*rs* each, find her income from the investment.



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3. Ramesh buys 100rs shares at 20rs premium in a company paying 15% dividend. Find (i) the market value of 600 shares , (ii) his annual income , (iii) his percentage income.



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4. Find the dividend due at the end of a year on 250 shares of 50rs each, if the half-yearly dividend is 4% of the value of the share.



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5. A man bought 500 shares, each of face value $10rs$ of a certain business concern and during the first year after purchase, receives $400rs$ as dividend on his shares. Find the rate of dividend on the shares.



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6. Mukul invests $9000rs$ in a company paying a dividend of 6% per annum when a share of face value $100rs$ stands at $150rs$. What is his

annual income ? If he sells 50 % of his shares at $200rs$ each , what is his gain in this transaction ?



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7. A man wants to buy 62 shares available at $132rs$ (par value being $100rs$).

(i) How much he will have to invest ?

(ii) If the dividend is 7.5 % what will be his annual income ?

(iii) If he wants to increase his annual income

by 150rs how many extra shares should he buy?



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8. A company with 4000 shares of nominal value of 110rs each declares an annual dividend of 15%. Calculate :

(i) the total amount of dividend paid by the company.

(ii) the annual income of Shah Rukh who holds 88 shares in the company?

(iii) if he received only 10 % on his investment, find the price Shah Rukh paid for each share.



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9. A man buys a 80rs share in a company which pays 20 % dividend. He buys the share at such a price that his profit is 16 % on his investment. At what price did he buy the share ?



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10. Ajay owns 560 shares of a company. The face value of each share is $25rs$. The company declares a dividend of 9% . Calculate

(i) the dividend that Ajay will get

(ii) the rate of interest on his investment, if Ajay had paid $30rs$ for each share.



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11. How much should a man invest in $80rs$ shares selling at $75rs$ to obtain an annual

income of $1080rs$, if the dividend declared is 15 percent ?



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12. A dividend of 9% was declared on $100rs$ share selling at a certain price. If the rate of return is 7.5% calculate

(i) the market value of the share

(ii) the amount to be invested to obtain an annual dividend of $630rs$



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13. Which is a better investment : 12 % , 100*rs* shares at 120 or 8 % 100*rs* shares at 90 ?



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14. A man sells 60 , 15*rs* shares of a company paying 12 percent dividend, at 21*rs* each and invests the proceeds in 6*rs* shares of another company at 9*rs* each. Find his change in income, if the second company pays a dividend of 8 percent



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15. Mr. Ram Gopal invested $8000rs$ in 7% $100rs$ shares at $80rs$. After a year, he sold these shares at $75rs$ each and invested the proceeds (including his dividend) in 18% , $25rs$ shares at $41rs$. Find

(i) his dividend for the first year

(ii) his annual income in the second year

(iii) the percentage increase in his return on his original investment.



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16. Ashok and Sandeep invest $18000rs$ each in buying shares of two different companies. Ashok buys 7.5% $100rs$ shares at a discount of 20% , whereas Sandeep buys $50rs$ shares at a premium of 20% . If both receive equal dividend at the end of the year, find the rate of dividend received by Sandeep.



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17. John had 1000 shares of a company with a face value of $40rs$ and paying 8% dividend. He sold some of these shares at a discount of 10% and invested the proceeds in $20rs$ shares at a premium of 50% and paying 12% dividend. If the change in his income is $192rs$, find the number of shares sold by John.



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18. Divide 40608rs into two parts such that if one part is invested in 8% 100rs shares at 8% discount and the other part is invested in 9% Rs100 shares at 8% premium , the annual incomes from both the investments are equal.



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19. A man has a choice to invest in hundred rupee shares of two companies A and B .

Shares of company A are available at a premium of 20% and it pays 8% dividend whereas shares of company B are available at a discount of 10% and it pays 7% dividend. If the man invests equally in both the companies and the sum of the return from them is 936rs, find how much, in all does he invest ?



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Exercise 3 A

1. How much money will be required to buy 400, $12.50rs$ shares at a premium of $1rs$?



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2. How much money will be required to buy 250, $15rs$ shares at a discount of $1.50rs$?



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3. A person buys 120 shares at a nominal value of $40rs$ each, which he sells at $42.50rs$ each.

Find his profit and profit percent.



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4. Find the cost of 85 shares of $60rs$ each when quoted at $63.25rs$.



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5. A man invests $800rs$ in buying $5rs$ shares and when they are selling at a premium of

1.15*r*s, he sells all the shares. Find his profit and profit percent.



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6. Find the annual income derived from 125, 120*r*s shares paying 5 % dividend.



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7. A man invests 3072*r*s in a company paying 5 % per annum, when its 10*r*s share can be

bought for $16rs$ 16 each. Find.

(i) his annual income

(ii) his percentage income on his investment



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8. A man invests $7770rs$ in a company paying 5 percent dividend when a share of nominal value of $100rs$ sells at a premium of $5rs$. Find.

(i) the number of shares bought

(ii) annual income

(iii) percentage income



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9. A man buys $50rs$ shares of a company, paying 12 percent dividend at a premium of $10rs$ Find :

(i) the market value of 320 shares

(ii) his annual income

(iii) his profit percent



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10. A man buys 75rs shares at a discount of 15rs of a company paying 20% dividend Find.

(i) the market value of 120 shares

(ii) his annual income

(iii) his profit percent



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11. A man has 300, 50rs shares of a company paying 20% dividend. Find his net income after paying 3% income tax.





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12. A company pays a dividend of 15% on its ten -rupee shares from which it deducts income tax at the rate of 22% . Find the annual income of a man who owns one thousand shares of this company ?



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13. A man invests $8800rs$ in buying shares of a company of face value of rupees hundred each

at a premium of 10% . If he earns $1200rs$ at the end of the year as dividend, find :

(i) the number of shares he has in the company

(ii) the dividend percent per share.



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14. A man invests $1680rs$ in buying shares of nominal value $24rs$ and selling at 12% premium. The dividend on the shares is 15% per annum . Calculate

(i) the number of shares he buys,

(ii) the dividend he receives annually



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15. By investing $7500rs$ in a company paying 10 percent dividend, an annual income of $500rs$ is received. What price is paid for each of $100rs$ share ?



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Exercise 3 B

1. A man buys 75,100 *rs* shares paying 9 percent dividend. He buys shares at such a price that he gets 12 percent of his money. At what price did he buy the shares ?



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2. By purchasing 25 *rs* shares for 40 *rs* each, a man gets 4 percent profit on his investments.

What are rate percent is the company paying ?

What is his dividend if he buys 60 shares ?



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3. Hundread rupee shares of a company are available in the market at a premium of $20rs$.

Find the rate of dividend given by the company when a man's return on his investment is 15 percent.



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4. $50rs$ shares of a company are quoted at a discount of 10% . Find the rate of dividend given by the company, the return on the investment on these shares being 20 percent.



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5. A company declares 8 percent dividend to the share holders. If a man receives $2840rs$ as his dividend, find the nominal value of his shares.



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6. How much should a man invest in $100rs$ shares selling at $110rs$ to obtain an annual income of $1680rs$, if the dividend declared is 12%



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7. A company declares a dividend of 11.2% to all its share holders. If its $60rs$ share is available in the market at a premium of 25% ,

how much should Rakesh invest, in buying the shares of this company, in order to have an annual income of $1680rs$?



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8. A man buys 400, twenty-rupee shares at a premium of $4rs$ each and receives a dividend of 12% . Find :

- (i) the amount invested by him
- (ii) his total income from the shares
- (iii) percentage return on his money.



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9. A man buys 400 twenty rupee shares at a discount of 20% and receives a return of 12% on his money. Calculate :

(i) the amount invested by him

(ii) the rate of dividend paid by the company



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10. A company with 10000 shares of 100rs each declares an annual dividend of 5%

(i) What is the total amount of dividend paid by the company ?

(ii) What should be the annual income of man who has 72 shares in the company ?



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11. A lady holds 1800 , 100rs shares of a company that pays 15 % dividend annually. Calculate her annual dividend. If she had bought these shares at 40 % permium, what is the return she gets as percent on her

investment ?

Give your answer to the nearest integer.



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12. A man invests $11200rs$ in a company paying 6 percent per annum when its $100rs$ shares can be bought for $140rs$ Find :

(i) his annual dividend

(ii) his percentage return on his investment



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13. Mr. Sharma has 60 shares of N.V. 100*rs* and sells them when they are a premium of 60% . He invests the proceeds in shares of nominal value 50*rs*, quoted at 4% discount, and paying 18% dividend annually. Calculate

(i) the sale proceeds

(ii) the number of shares he buys and

(iii) his annual dividend from the shares



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14. A company with 10000 shares of nominal value 100*rs* declares an annual dividend of 8% to the share-holders

(i) Calculate the total amount of dividend paid by the company.

(ii) Ramesh had bought 90 shares of the company at 150*rs* per share. Calculate the dividend he receives and the percentage of return on his investment.



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15. Which is the better investment 16 % $100rs$ shares at 80 or 20 % $100rs$ shares at 120 ?



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16. A man has a choice to invest in hundred rupee shares of two firms at $120rs$ or at $132rs$.

The first firm pays a dividend of 5 % per annum and the second firm pays a dividend of 6 % per annum. Find :

(i) which company is giving a better return.

(ii) if a man invests $26400rs$ with each firm

how much will be the difference between the annual returns from the two firms ?



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17. A man bought 360 ten- rupee shares of a company paying 12 percent per annum. He sold the shares when their price rose to $21rs$ per share and invested the proceeds in five-rupee shares paying 4.5 percent per annum at $3.50rs$ per share. Find the annual change in his income.



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18. A man sold 400 ($20rs$) shares of a company, paying 5% at $18rs$ and invested the proceeds in ($10rs$) shares of another company paying 7% at $12rs$. How many ($10rs$) shares did he buy and what was the change in his income ?



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19. Two brothers A and B invest $16000rs$ each in buying shares of two companies. A buys 3% hundred-rupee shares at 80 and B buys ten-rupee shares at par. If they both receive equal dividend at the end of the year, find the rate percent of the dividend received by B.



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20. A man invests $20020rs$ in buying shares of N.V. $26rs$ at 10% premium. The dividend on

the shares is 15 % per annum. Calculate

(i) the number of shares he buys

(ii) the dividend he receives annually

(iii) the rate of interest he gets on his money



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Exercise 3 C

1. By investing 45000rs in 10 % 100rs shares, Shared gets 3000rs as dividend. Find the market value of each share.



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2. Mrs. Kulkarni invests 131040rs in buying 100rs shares at a discount of 9%. She sells shares worth 72000 at a premium of 10% and the rest at a discount of 5%. Find her total gain or loss on the whole.



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3. A man invests a certain sum in buying 15% 100rs shares at 20% premium. Find :

(i) his income from one share.

(ii) the number of shares bought to have an income, from the dividend $6480rs$

(iii) sum invested



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4. Gagan invested 80% of his savings in 10% $100rs$ shares at 20% premium and the rest of his savings in 20% $50rs$ shares at 20% discount. If his incomes from these shares is $5600rs$ calculate

- (i) his investment in shares on the whole
- (ii) the number of shares of first kind that he bought.
- (iii) percentage return on the shares bought on the whole



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5. Ashwarya bought $496,100rs$ shares at $132rs$ each. Find

- (i) investment made by her
- (ii) income of Ashwarya from these shares, if

the rate of dividend is 7.5%

(iii) how much extra must Ashwarya invest in order to increase her income by $7200rs$?



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6. Gopal has some $100rs$ shares of company A, paying 10% dividend. He sells a certain number of these shares at a discount of 20% and invests the proceeds in $100rs$ shares of $60rs$ of company B paying 20% dividend. If his income from the shares sold increases by

18000rs find the number of shares sold by
Gopal



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7. A man invests a certain sum of money in 6% hundred rupee shares at 12rs premium. When the shares fell to 96rs he sold out all the shares bought and invested the proceed in 10% ten rupee shares at 8rs. If the change in his income is 540rs find the sum invested originally.



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8. Mr. Gupta has a choice to invest in ten-rupee shares of two firms at $13rs$ or at $16rs$. If the first firm pays 5% dividend and the second firm pays 6% dividend per annum, find :

(i) which firm is paying better

(ii) if Mr. Gupta invests equally in both the firms and the difference between the returns from them is $30rs$, find how much, in all does he invest ?



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9. Ashok invested $26400rs$ in 12% , $25rs$ shares of a company. If he receives a dividend of $2475rs$ find the

(i) number of shares he bought

(ii) market value of each share.



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10. A man invested $45000rs$ in 15% $100rs$ shares quoted at $125rs$. When the M.V. of these shares rose to $140rs$, he sold some

shares, just enough to raise $8400rs$ Calculate

(i) the number of shares he still holds

(ii) the dividend due to him on these remaining shares.



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11. Mr. Tiwari invested $29040rs$ in 15% $100rs$ shares quoted at a premium of 20% .

Calculate

(i) the number of shares bought by Mr. Tiwari

(ii) Mr. Tiwari income from the investment

(iii) the percentage return on his investment



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12. A dividend of 12% was declared on $150rs$ shares selling at a certain price. If the rate of return is 10% calculate

(i) the market value of the shares

(ii) the amount to be invested to obtain an annual dividend of $1350rs$



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13. Divide $50760rs$ into two parts such that if one part is invested in 8% $100rs$ shares at 8% discount and the other in 9% $100rs$ shares at 8% premium the annual incomes from both the investments are equal



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14. Mr. Shameem invested $33\frac{1}{3}\%$ of his savings in 20% $50rs$ shares quoted at $60rs$ and the remainder of the savings in 10%

100*rs* shares quoted at 110*rs*. If his total income from these investments is 9200*rs* find

(i) his total savings

(ii) the number of 50*rs* shares

the number of 100*rs* shares



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15. Vivek invests 4500*rs* in 8% 10*rs* shares at 15*rs*. He sells the shares when the price rises to 30*rs*, and invests the proceeds in 12% 100*rs* shares at 125*rs*. Calculate

(i) the sale proceeds

(ii) the number of $125rs$ shares he buys

(iii) the change in his annual income from dividend.



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16. Mr.Parkeh invested 52000 on $100rs$ shares at a discount of $20rs$ paying 8% dividend. At the end of one year he sells the shares at a premium of $20rs$. Find

(i) the annual dividend

(ii) the profit earned including his dividend



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17. Salman buys 50 shares of face value $100rs$ available at $132rs$

(i) What is his investment ?

(ii) If the dividend is 7.5% what will be his annual income ?

(iii) If he wants to increase his annual income

by 150rs how many extra shares should be buy?



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18. Salman invests a sum of money in 50rs shares paying 15% dividend quoted at 20% premium. If his annual dividend is 600rs, calculate

(i) the number of shares he bought

(ii) his total investment

(iii) the rate of return on his investment



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19. Rohit invested $9600rs$ on $100rs$ shares at $20rs$ premium paying 8% dividend. Rohit sold the shares when the price rose to $160rs$. He invested the proceeds (excluding dividend) in 10% $50rs$ shares at $40rs$ find the

- (i) original number of shares
- (ii) sale proceeds
- (iii) new number of shares
- (iv) change in the two dividends



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20. How much should a man invest in $50rs$ shares selling at $60rs$ to obtain an income of $450rs$ if the rate of dividend declared is 10% . Also find his yield percent to the nearest whole number.



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