19. Given that y is inversely proportional to x, and that $y = 4$ when $x = 6$,

(a) find an expression for y in terms of x,

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....

[3]

(b) complete the following table for values of x and y.

x	$\frac{1}{2}$	6	
y		4	3

....

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....

....

[2]

16. Given that y is inversely proportional to x, and that $y = 2$ when $x = 5$,

(a) find an expression for y in terms of x,

....

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....

....

[3]

(b) complete the following table for values of x and y.

x	5	10	
y	2		20

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....

....

[2]

17. Make n the subject of the following formula.

$$\frac{4n(3+g)}{5+n} = 7$$

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[4]

18. Given that y is **inversely** proportional to x, and that $y = 3$ when $x = 10$,

(a)   find an expression for y in terms of x,

....

....

....

....

....

....

....

[3]

(b)   calculate y when $x = 1\cdot5$,

....

....

[1]

(c)   calculate x when $y = 0\cdot5$.

....

....

....

[1]

20. Given that y is inversely proportional to x, and that $y = 3$ when $x = 2$,

    (a)   find an expression for y in terms of x,

....

....

....

....

                                                                                                          [3]

    (b)   use the expression you found in *(a)* to complete the following table.

x	-1	2	
y		3	$0 \cdot 1$

....

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                                                                                                          [2]

21. Express $0 \cdot 8\overset{..}{2}\overset{.}{3}$ as a fraction.

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17. Given that y is inversely proportional to x^2, and that $y = 2$ when $x = 15$,

  (a) find an expression for y in terms of x,

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ok

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[3]

  (b) calculate y when $x = 10$.

....

....

....

[1]

15. Given that y is inversely proportional to x^2, and that $y = 4$ when $x = 5$,

CALC
ok

(a) find an expression for y in terms of x,

....

....

....

....

....

[3]

(b) calculate

   (i) the value of y when $x = \dfrac{1}{2}$,

....

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....

[1]

   (ii) a value of x when $y = 10\,000$.

....

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....

....

[2]