

MATHS - DIRECT VARIATION

Answer the following

1. If p varies directly as q , and $p=20$ when $q=5$:

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| a. Find the formula connecting p and q . | Formula: |
| b. Find p when $q=7$. | p : |
| c. Find q when $p=30$ | q : |

2. If a varies directly as b , and $a=15$ when $b=3$

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| a. Find the formula a and b | Formula: |
| b. Find a when $b=8$ | a : |
| c. Find b when $a=12$ | b : |

3. If r varies directly as s , and $r=18$ when $s=6$

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| a. Find the formula connecting r and s . | Formula: |
| b. Find r when $s=10$ | r : |
| c. Find s when $r=9$ | s : |

4. If t varies directly as u , and $t=24$ when $u=8$

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| a. Find the formula connecting t and u . | Formula: |
| b. Find t when $u=15$ | t : |
| c. Find u when $t=36$ | u : |

5. If m varies directly as n , and $m=40$ when $n=5$

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| a. Find the formula connecting m and n | Formula: |
| b. Find m when $n=12$ | m : |
| c. Find n when $m=28$ | n : |