

MATHS - DIRECT VARIATION

Answer the following

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

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 $b=3$

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 $s=6$

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 $u=8$

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 $n=5$

a. Find the formula connecting m and n

Formula:

b. Find m when $n=12$

m :

c. Find n when $m=28$

n :