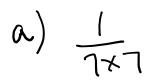


## Prime Factors, Indices, HCF and LCM Assignment

- Q1: Write down following as product of their prime factors.
- a) 200
- b) 68
- c) 72
- Q2: Write down the HCF and LCM of following:
- a) 20 and 220
- b) 56 and 196
- c) 16 and 20
- Q3: Write down all the factors of 64.
- Q4: Write as single power of 6.
- a) 6x6x6x6 b) 6x6x6x6x6x6
- Q5: Write as single power of 7



Q6: Simplify these expressions and leave your answers in index form.

a) 
$$\frac{2^4 \times 2^6}{2^3}$$

$$\frac{8_{5}\times8}{8_{3}\times8_{2}}$$

b) 
$$\frac{8^3 \times 8^5}{8^2 \times 8}$$
 c)  $\frac{4^{-2} \times 4^5}{4^4 \times 4^{-6}}$ 

Q7: Rewrite the following expression without indices.

b)  $\left(\frac{1}{4}\right)^3$  c)  $16^{-1}$  d)  $\left(\frac{1}{3}\right)^3$  e)  $\left(\frac{3}{2}\right)^{-2}$  ue of n.

Q8: Work out the value of n.