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**Abstract**

In this note, we show that if  $N$  is an odd perfect number and  $q^\alpha$  is some prime power exactly dividing it, then  $\sigma(N/q^\alpha)/q^\alpha > 5$ . In general, we also show that if  $\sigma(N/q^\alpha)/q^\alpha < K$ , where  $K$  is any constant, then  $N$  is bounded by some function depending on  $K$ .