Converting units - Revision

Converting metres per seconds to kilometres per hour

_____ metres = 1 kilometre

_____ minutes = 1 hour

_____ seconds = 1 minute

 $_$ seconds = 1 hour

1. Convert the following speeds measured in km/h to m/s

Eg. Convert 48 km/h to m/s

Kilometres to metres multiply by 1000 (x 1000) Hour to minutes to seconds multiply by 60 then 60 again.(x 60 x 60) $48 \text{ km/hr} = \frac{48x1000m}{1hrx60x60} = \frac{48000}{3600} = 13.33 \text{ m/s}$

a) 72 km/hr = e) 240 km/hr =

b) 60 km/hr =f) 1800 km/hr =

c) 120 km/hr =g) 5 km/hr =

d) 40 km/hr =h) 14 km/hr =

2. Convert the following speeds measured in m/s to km/hr

Eg. Convert 12m/s to km/hr (we do the opposite to question 1)

Metres to kilometres divide by 1000 (÷1000) Seconds to minutes to hours divide by 60 then divide by 60 again (\div 60 \div 60)

 $12m/s = 12 \div 1000 = 43.2 \text{km/hr}$ $1 \div 60 \div 60$ a) 10m/s =b) 14m/s =c) 15m/s =d) 48m/s =e) 20 m/s =f) 2 m/s =