1 The mass, in kilograms, of a grain of sand is $3.5 \times 10^{-10} \mathrm{~kg}$.
Find the total mass of 75000 grains of sand.
Give your answer in standard form.

2 Expand and simplify as far as possible.
$-3(x-2 y)$
$-2 x(3 x-2)$
$-4 x(x-3)$
$-2 x(x+2)-x(3-x)$
$-x(3-y)-2(y+2)$
$-4(5 x-2 y)+3(4 y-2 x)$

3 Solve the following equations
$x-9=18$
$2 x+7=35$
$4 x=-2(x+2)$
$2 x+3=x-4$

$$
6-2 x=4 x-6
$$

$$
\frac{2 x}{5}-4=12
$$

$\frac{3 x}{2}+\frac{x}{3}=22$

$$
x-1=3(3 x-2)-(3 x+4)
$$

$$
4(x-2)-3(3+x)=4-x
$$

