## Multiplication and Division with Directed numbers

Calculation in a pair: We have to do sign operation and operation of number. Sign operation: Multiplication and division of sign is given below.
$-\quad \mathbf{x - =}+\quad$ (Division of sign is same as multiplication, i.e., $-\div+=-$ )

- $x+=-$
$+x-=-$
$+\mathbf{x}+=+$
Operation of numbers: Do according to the sign,


## Example

i) $25 \div(-5)=-5$
ii) $-7 \times(-3)=+21$

Sign: $+\div-=-$ (Our answer will be - ve)
Sign:- $\mathbf{x}-=+$
Number: $25 \div 5=5$
Number: $7 \times 3=21$
iii) $-7-(-3)$
$=-7+3$ (First we multiply the sign $-\mathbf{x - = +})$
$=-4$
(Calculation in the pair)

1) Multiply the following numbers
a) $36 \times(-5)$
b) $-75 \times 7$
c) $28 \times(-7)$
$=$ $\qquad$
$=$ $\qquad$
$=$ $\qquad$
d) $67 \times 9$
e) $-5 \times(-3)$
f) $47 \times(-12)$
$\qquad$
$=$
g) $26 \times(-75)$
$=$ $\qquad$
$\qquad$
h) $-27 \times(-5)$
i) $-24 \times 63$
= $\qquad$ $=$ $\qquad$
$\qquad$
2) Divide
a) $27 \div(-3)=$ $\qquad$ b) $-42 \div 6=$ $\qquad$
c) $-80 \div(-8)=$ $\qquad$
d) $35 \div 5=$ $\qquad$ e) $-15 \div 3=$ $\qquad$
f) $-63 \div(9)=$
$\qquad$
g) $28 \div(-7)=$ $\qquad$ h) $-60 \div 12=$ $\qquad$ i) $-78 \div(-2)=$ $\qquad$
3) Simplify
a) $5-(-7)$
b) $-8+(-7)$
c) $7+(-8)$
$=$ $\qquad$ $=$ $\qquad$ $=$ $\qquad$
d) $24-(+14)$
e) $-36-(-9)$
f) $75-(-3)$
$=$ $\qquad$
$=$ $\qquad$
$=$ $\qquad$
