2AC	**Les nombres rationnels: multiplcation et division.**	**Exercices d'applications**
	Les expressions encadrées sont des exemples corrigés	**Série 1**

Exercice 1

Calculer (simplifier **avant** de calculer, si possible):

$\dfrac{3}{7} \times \dfrac{9}{5} = \dfrac{3 \times 9}{7 \times 5} = \dfrac{27}{35}$

$\dfrac{18}{7} \times -\dfrac{4}{9} = -\dfrac{18 \times 4}{7 \times 9} = -\dfrac{2 \times 9 \times 4}{7 \times 9} = -\dfrac{2 \times 4}{7} = -\dfrac{8}{7}$

$\dfrac{-1}{10} \times \dfrac{35}{-3} = $ ....

$\dfrac{5}{2} \times \dfrac{4}{7} = $ ....

$7 \times \dfrac{3}{14} = $ ....

$4,5 \times \dfrac{7}{2} = $ ....

$\dfrac{5}{8} \times (-3) = $ ....

$\dfrac{-2}{7} \times \dfrac{9}{7} = $ ....

$-\dfrac{5}{16} \times \dfrac{16}{5} = $ ....

$\dfrac{-12}{55} \times \dfrac{11}{20} = $ ....

$\dfrac{36}{-17} \times \dfrac{-5}{-9} = $ ....

$2 \times \dfrac{9}{2} = $ ....

$\dfrac{120}{24} \times \dfrac{3600}{-40} = $ ....

Exercice 3

Calculer (simplifier **avant** de calculer, si possible):

$\dfrac{-3}{2} \div \dfrac{7}{5} = \dfrac{-3}{2} \times \dfrac{5}{7} = \dfrac{-3 \times 5}{2 \times 7} = \dfrac{-15}{14}$

$\dfrac{-1}{10} \div \dfrac{35}{-3} = $ ....

$\dfrac{5}{2} \div \dfrac{14}{4} = $ ....

$7 \div \dfrac{-21}{12} = $ ....

$4,2 \div \dfrac{7}{2} = $ ....

$\dfrac{5}{8} \div (-3) = $ ....

$\dfrac{-2}{7} \div \dfrac{9}{7} = $ ....

$-\dfrac{5}{16} \div \dfrac{16}{5} = $ ....

$-\dfrac{5}{16} \div \dfrac{16}{5} = $ ....

$\dfrac{33}{-40} \div \dfrac{11}{20} = $ ....

$\dfrac{45}{18} \div \dfrac{-5}{-9} = $ ....

$9 \div \dfrac{9}{2} = $ ....

$\dfrac{120}{24} \div \dfrac{3600}{-40} = $ ....

Exercice 2

Calculer (simplifier **avant** de calculer, si possible):

$\dfrac{1}{2} \times \dfrac{-8}{12} \times \dfrac{14}{7}$ | $\dfrac{-8}{5} \times \dfrac{-15}{-7} \times \dfrac{21}{12}$

$= $ .... | $= $ ....

$= $ .... | $= $ ....

$= $ .... | $= $ ....

$= $ .... | $= $ ....

Exercice 4

Calculer (simplifier avant de calculer, si possible):

$\dfrac{\frac{4}{7}}{\frac{9}{5}} = $ ....

$\dfrac{\frac{-22}{33}}{15} = $ ....

$\dfrac{-24}{\frac{-18}{27}} = $ ....