



MBA-maths

الأستاذ: محمد بن عمارة

سلسلة تمارين رياضيات

ضرب الأعداد الكسرية وقسمتها



التمرين الأول:

(أ) - أحسب مختزلا لأقصى حد :

$$\begin{aligned} & \frac{2}{5} \times \frac{5}{2} \quad (5) \quad 3 \times \frac{2}{5} \times \frac{25}{9} \quad (4) \quad \frac{2010}{1245} \times \frac{0}{49} \times \frac{3}{12} \quad (3) \quad \frac{7}{9} \times \frac{81}{49} \quad (2) \quad \frac{2}{5} \times \frac{3}{7} \quad (1) \\ & \frac{2010}{64} \times \frac{25}{2009} \times \frac{32}{125} \times \frac{2009}{2010} \quad (9) \quad 0,25 \times \frac{10}{125} \quad (8) \quad \frac{9}{4} \times 1 \times \frac{16}{27} \quad (7) \quad \frac{2010}{9} \times \frac{81}{4020} \quad (6) \\ & \frac{29}{11} \times \frac{16}{35} \times \frac{14}{58} \times \frac{121}{48} \quad (12) \quad \frac{144}{12} \times \frac{51}{13} \times \frac{39}{34} \quad (11) \quad \frac{81}{37} \times \frac{33}{27} \times \frac{74}{99} \quad (10) \\ & \frac{15}{8} \times \frac{42}{27} \times \frac{9}{7} \quad (15) \quad \frac{260000}{450} \times \frac{2700}{39000} \times \frac{900}{2000} \quad (14) \quad 0,75 \times \frac{4}{3} \times \frac{70}{45} \times \frac{15}{70} \quad (13) \\ & \frac{125}{45} \times \frac{9}{36} \times \frac{27}{15} \times \frac{12}{81} \quad (17) \quad \frac{5}{3} \times \frac{6}{4} \times \frac{27}{15} \times \frac{12}{18} \quad (16) \end{aligned}$$

(ب) - أحسب بأبصر طريقة :

$$\begin{aligned} & \frac{5}{7} \times \left(\frac{7}{5} + \frac{14}{11} \right) \quad (3) \quad \frac{12}{7} \times \frac{9}{5} - \frac{12}{7} \times \frac{2}{5} \quad (2) \quad \frac{2}{5} \times \frac{16}{7} - \frac{2}{5} \times \frac{9}{7} \quad (1) \\ & \frac{64}{49} \times \frac{51}{37} - \frac{64}{49} \times \frac{2}{37} \quad (6) \quad \frac{17}{13} \times 8,5 + \frac{17}{13} \times 4,5 \quad (5) \quad 2,1 \times \left(\frac{10}{3} - \frac{15}{7} \right) \quad (4) \\ & 13 \times \frac{14}{3} + 13 \times \frac{16}{3} \quad (9) \quad \frac{2010}{2009} \times \frac{25}{32} + \frac{14}{64} \times \frac{2010}{2009} \quad (8) \quad \frac{5}{7} \times \left(\frac{7}{5} + \frac{14}{11} \right) \quad (7) \end{aligned}$$

(ت) - أحسب ما يلي :

$$\begin{aligned} & \left(2 - \frac{3}{20} \right) \times 4 - \frac{1}{5} \quad (3) \quad \frac{4}{3} \times \left(1 + \frac{5}{4} \right) \quad (2) \quad \left(\frac{1}{2} + \frac{1}{3} \right) \times \left(\frac{9}{6} + \frac{3}{2} \right) \quad (1) \\ & \left(\frac{3}{5} + \frac{7}{3} \right) \times \frac{15}{44} + 3 \quad (6) \quad \frac{7}{5} \times \frac{30}{42} + \frac{5}{2} \times \frac{4}{20} \quad (5) \quad 2 - \frac{3}{20} \times 5 + \frac{1}{5} \quad (4) \\ & \frac{2010}{2009} \times \frac{2009}{2010} + \frac{14}{55} \times \frac{88}{49} \quad (8) \quad (0,25 \times 4 + 3) - \frac{2}{5} \times \frac{15}{7} \quad (7) \end{aligned}$$

(ث) - اتمم النقاط بما يناسب :

$$\begin{aligned} & \frac{7}{35} \times \frac{\dots}{\dots} = \frac{21}{35} \quad (4) \quad \frac{45}{124} \times \frac{\dots}{17} = 0 \quad (3) \quad \frac{18}{\dots} \times \frac{\dots}{5} = \frac{36}{35} \quad (2) \quad \frac{2}{5} \times \frac{\dots}{\dots} = 1 \quad (1) \\ & \frac{12}{7} \times \frac{\dots}{24} \times \frac{49}{33} = \frac{7}{6} \quad (7) \quad \frac{20}{\dots} \times 3,5 = \frac{70}{13} \quad (6) \quad \frac{3}{7} \times \frac{2}{\dots} = \frac{6}{49} \quad (5) \end{aligned}$$

التمرين الثاني:

1. أحسب بأبسط طريقة:

$$\text{أ) } \frac{8}{3} + \left(\frac{10}{3} - 1 \right) \quad \text{ب) } \frac{3}{4} + \frac{15}{9} - \frac{1}{4} \quad \text{ج) } \frac{11}{10} - \left(\frac{11}{10} - \frac{7}{8} \right)$$

2. أحسب واختزل:

$$\begin{aligned} &\text{أ) } \frac{75}{4} \times \frac{8}{3} \times \frac{2}{25} \quad \text{ب) } \frac{5}{4} \times \frac{13}{44} \times \frac{121}{39} \quad \text{ج) } \frac{42}{17} \times \frac{1}{5} \times \frac{34}{21} \quad \text{د) } \frac{6}{5} \times \left(\frac{3}{4} + \frac{10}{3} \right) \quad \text{هـ) } \frac{15}{8} \times \left(\frac{6}{5} + 1 \right) \\ &\frac{7}{3} \times \frac{27}{15} - \frac{23}{15} \quad \text{ب) } \frac{8}{34} \times \frac{17}{2} + \frac{15}{7} \quad \text{ج) } \frac{19}{7} - \frac{1}{2} \times \frac{2}{7} \quad \text{د) } \frac{19}{2} \times 1,7 + \frac{19}{2} \times 0,3 \quad \text{هـ) } \frac{2}{3} \times \frac{7}{8} + \frac{2}{3} \times \frac{1}{4} \\ &\left(2 - \frac{3}{2} \right) \times \frac{1}{3} + 4 \times \left(1 - \frac{1}{4} \right) \quad \text{ب) } \frac{7}{6} + \frac{5}{6} \times \left(2 + \frac{2}{5} \right) \quad \text{ج) } \left(3 + \frac{1}{2} \right) \times 2 + 5 \end{aligned}$$

التمرين الثالث: أكمل الجدول التالي:

العدد الكسري	45	$\frac{1}{2}$	$\frac{13}{7}$	0,75	3,5
مقلوبه					

التمرين الرابع: أحسب:

$\frac{3}{2} =$	$\frac{2}{5} =$	$\frac{3}{4} =$	$\frac{16}{9} =$	$\frac{11}{6} =$
$\frac{25}{7} =$	$\frac{36}{49} =$	$\frac{10}{5} =$	$\frac{3}{9} =$	$\frac{6}{3} =$
$\frac{1.25}{5} =$	$2 + \frac{1}{3}$	$\frac{1}{2} + \frac{1}{4} =$	$\frac{3}{9} + 1 =$	$\frac{4}{5} \times \frac{5}{4} =$
$\frac{5 \times \frac{3}{25}}{\frac{1}{2} + \frac{2}{4}} =$	$\frac{13}{5} - 1.2 =$	$\frac{9}{6} \times \frac{12}{18} =$	$\frac{1}{2} - \frac{1}{3} =$	
$\frac{2}{3} + \frac{7}{12} =$	$2 \times \frac{3}{4} =$	$\frac{3}{2} \times \frac{1}{5} =$	$\frac{1}{2} + \frac{3}{5} =$	$\frac{1}{4} \times \frac{4}{7} + 1 =$
$\frac{3}{4} + \frac{6}{12} =$	$\frac{1}{2} + \frac{4}{8} =$	$\frac{3}{5} \times \frac{1}{2} =$	$\frac{1}{2} + \frac{3}{5} =$	$\frac{1}{3} - \frac{3}{4} =$