

التمرين عدد 1:

أكمل بصواب أو خطأ

(أ) $-\frac{7}{3} \in D_-$

(ب) $\left| -\frac{1}{11} \right| = \left| \frac{2}{22} \right|$

(ج) $-(-4) \in \mathbb{Z} +$

(د) $-|-3, 4| = 3, 4$

(هـ) 51380 يقبل القسمة على 8

(و) $\frac{39}{52} + (-\frac{3}{4}) = 0$

(ز) $-\frac{13}{19} > -\frac{13}{20}$

(ن) $|-3, 5 + 1, 2| = |-3, 5| + |1, 2|$

التمرين الثاني:

احسب:

$$a = -5 \times 3 - 3 + 7 \times 10$$

$$b = -79 \times 131 + 31 \times 79$$

$$c = -7 + 3 \times 2 - (-7 + 3) \times 2$$

$$d = \frac{3}{4} \times \left(-\frac{14}{15} \right) \times \frac{30}{7} \times \left(-\frac{1}{6} \right)$$

$$e = -\frac{5}{7} - \frac{5}{7} \times \frac{14}{5}$$

التمرين الثالث:

$$A = \left(-\frac{5}{7} \right) \times \left(-\frac{21}{4} \right) \times \left(-\frac{2}{15} \right)$$

$$B = -\frac{11}{12} + \frac{1}{12} \times \left(-\frac{5}{3} \right) + \frac{5}{3}$$

$$C = \left(-\frac{3}{4} + 0,25 \right) \left(-\frac{1}{3} + \frac{1}{2} \right)$$

$$D = -\frac{17}{13} \times \frac{41}{22} + \frac{41}{22} \times \left(-\frac{9}{13} \right)$$



التمرين عدد 1:

(أ) خطأ / (ب) صواب / (ج) صواب / (د) خطأ / (هـ) خطأ / (و) صواب / (ز) خطأ /
(ن) خطأ

التمرين الثاني:

$$a = -5 \times 3 - 3 + 7 \times 10 -$$

$$= -15 - 3 + 70 = -18 + 70 = 52$$

$$b = -79 \times 131 + 31 \times 79$$

$$= 79 \times (-131 + 31) = 79 \times (-100) = -7900$$

$$c = -7 + 3 \times 2 - (-7 + 3) \times 2$$

$$= -7 + 6 - (-4) \times 2$$

$$= -7 + 6 - (-8) = -7 + 6 + 8 = -7 + 14 = 7$$

$$d = \frac{3}{4} \times \left(-\frac{14}{15}\right) \times \frac{30}{7} \times \left(-\frac{1}{6}\right) = \frac{3 \times 14 \times 30}{4 \times 15 \times 7 \times 6}$$

$$= \frac{3 \times 7 \times 2 \times 2 \times 15}{4 \times 15 \times 7 \times 3 \times 2} = \frac{2}{4} = \frac{1}{2}$$

$$e = -\frac{5}{7} - \frac{5}{7} \times \frac{14}{5} = -\frac{5}{7} - \frac{5 \times 2 \times 7}{7 \times 5}$$

$$= -\frac{5}{7} - \frac{14}{7} = -\frac{22}{7}$$



التمرين الثالث:

$$A = \left(-\frac{5}{7}\right) \times \left(-\frac{21}{4}\right) \times \left(-\frac{2}{15}\right) = -\frac{5 \times 21 \times 2}{7 \times 4 \times 15}$$
$$= -\frac{5 \times 7 \times 3 \times 2}{7 \times 2 \times 2 \times 5 \times 3} = -\frac{1}{2}$$

$$B = -\frac{11}{12} + \frac{1}{12} \times \left(-\frac{5}{3}\right) + \frac{5}{3} = -\frac{1}{12} + \left(-\frac{5}{36}\right) + \frac{5}{3}$$
$$= -\frac{3}{36} + \left(-\frac{5}{36}\right) + \frac{60}{36} = \frac{52}{36} = \frac{13}{9}$$

$$C = \left(-\frac{3}{4} + 0,25\right) \left(-\frac{1}{3} + \frac{1}{2}\right) = \left(-\frac{3}{4} + \frac{1}{4}\right) \left(-\frac{2}{6} + \frac{3}{6}\right)$$
$$= -\frac{2}{4} \times \frac{1}{6} = -\frac{2}{24} = -\frac{1}{12}$$

$$D = -\frac{17}{13} \times \frac{41}{22} + \frac{41}{22} \times \left(-\frac{9}{13}\right)$$
$$= \frac{41}{22} \times \left(-\frac{17}{13} + \left(-\frac{9}{13}\right)\right) = \frac{41}{22} \times \left(-\frac{26}{13}\right)$$
$$= \frac{41}{22} \times (-2) = -\frac{41 \times 2}{11 \times 2} = -\frac{41}{11}$$

