

فرض مراقبة عدد 03 الرياضيات سنة الثامنة مع

الاصلاح

التمرين الأول:

أكمل بصواب أو خطأ

(أ) $\left(-\frac{4}{9}\right) \times \left(-\frac{5}{9}\right) = \frac{20}{9}$ ☐

(ب) $\frac{3}{5} = \frac{1}{-\frac{5}{3}}$ ☐

(ج) $\frac{4}{\frac{7}{5}} + 1 = \frac{9}{5}$ ☐

(د) $\frac{1}{\frac{1}{2} + \frac{1}{3}} = 2 + 3$ ☐

(هـ) $-\frac{0,25}{-\frac{3}{2}} = \frac{1}{6}$ ☐

التمرين الثاني:

احسب العدد الكسري a في كل حالة

(أ) $a \times \frac{4}{7} = 1$

(ب) $\left(-\frac{8}{9}\right) \times a = 1$

(ج) $\left(\frac{5}{8} - \frac{3}{4}\right) \times a = 1$

التمرين الثالث:

احسب

(أ) $a = \frac{\frac{2}{3}}{\frac{4}{5}}$

(ب) $b = \frac{\frac{5}{4} - \frac{2}{3}}{\frac{2}{3}}$

(ج) $c = \frac{\frac{2}{3} - \frac{2}{4}}{\frac{5}{6}}$

(د) $d = 1 + \frac{-\frac{2}{7}}{\frac{14}{49}}$

(هـ) $g = \frac{\frac{2}{3} - 3 \times \frac{5}{6}}{\frac{3}{2} \times \frac{5}{6} - \frac{9}{10}}$

(و) $f = \frac{1}{\frac{5}{5} + \frac{5}{7}}$

(ز) $e = \frac{1}{-\frac{1}{2} + \frac{1}{3}}$



التمرين الاول:

(أ خطأ / ب خطأ / ج صواب / د خطأ / هـ صواب

التمرين الثاني:

$$a = \frac{7}{4} \text{ يعني } a \times \frac{4}{7} = 1 \text{ (أ)}$$

$$a = -\frac{9}{8} \text{ يعني } \left(-\frac{8}{9}\right) \times a = 1 \text{ (ب)}$$

$$\left(\frac{5}{8} - \frac{6}{8}\right) \times a = 1 \text{ يعني } \left(\frac{5}{8} - \frac{3}{4}\right) \times a = 1 \text{ (ج)}$$

$$a = -8 \text{ يعني } -\frac{1}{8} \times a = 1$$

التمرين الثالث:

احسب

$$a = \frac{\frac{2}{3}}{\frac{4}{5}} = \frac{2}{3} \times \frac{5}{4} = \frac{5}{6} \text{ (أ)}$$

(ب)

$$b = \frac{\frac{5}{4} - \frac{2}{3}}{\frac{2}{3}} = \frac{\frac{15}{12} - \frac{8}{12}}{\frac{2}{3}} = \frac{\frac{7}{12}}{\frac{2}{3}} = \frac{7}{12} \times \frac{3}{2} = \frac{7 \times 3}{4 \times 3 \times 2} = \frac{7}{8}$$

$$c = \frac{\frac{2}{3}}{\frac{4}{5}} - \frac{\frac{2}{3}}{\frac{5}{5}} = 2 \times \frac{4}{3} - 2 \times \frac{5}{3} = \frac{8}{3} - \frac{10}{3} = -\frac{2}{3} \text{ (ج)}$$

$$d = 1 + \frac{-\frac{7}{14}}{\frac{49}{49}} = 1 + \left(-\frac{2}{7}\right) \times \frac{49}{14} = 1 - \frac{2 \times 7 \times 7}{7 \times 2 \times 7} \text{ (د)}$$
$$= 1 - 1 = 0$$



$$e = \frac{1}{-\frac{1}{2} + \frac{1}{3}} = \frac{1}{-\frac{3}{6} + \frac{2}{6}} = \frac{1}{-\frac{1}{6}} = -6 \quad (4)$$

(3)

$$f = \frac{1}{\frac{1}{5} + \frac{\frac{1}{5}}{7}} = \frac{7}{5} + \frac{1}{5} \times \frac{1}{7}$$

$$= \frac{7}{5} + \frac{1}{35} = \frac{49}{35} + \frac{1}{35} = \frac{50}{35} = \frac{10}{7}$$

(3)

$$g = \frac{\frac{2}{3} - 3 \times \frac{5}{6}}{\frac{3}{2} \times \frac{5}{6} - \frac{9}{10}} = \frac{\frac{2}{3} - \frac{5}{2}}{\frac{3}{2} \times \frac{5}{6} - \frac{9}{10}}$$

$$= \frac{\frac{4}{6} - \frac{15}{6}}{\frac{6}{20} - \frac{18}{20}} = \frac{-\frac{11}{6}}{-\frac{6}{20}} = -\frac{11}{6} \times \frac{20}{7}$$

$$= -\frac{11 \times 20}{2 \times 3 \times 7} = -\frac{110}{21}$$

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