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$$x + \frac{15}{4} = \frac{21}{4}$$

$$x = \frac{21}{4} - \frac{15}{4}$$

$$x = \frac{6}{4}$$

$$x = \frac{3}{2}$$

$$\frac{x+3}{5} = \frac{2}{3}$$

$$x + 3 = \frac{2}{3} \times 5$$

$$x + 3 = \frac{10}{3}$$

$$x = \frac{10}{3} - 3$$

$$x = \frac{10}{3} - \frac{9}{3}$$

$$x = \frac{1}{3}$$

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تمرين عدد09: احسب واختزل:

$$\frac{\frac{3}{4}\times\frac{5}{2}\times\frac{2}{3}}{\frac{9}{7}\times\frac{4}{5}} \; ; \; \frac{\frac{1}{6}\times\frac{4}{9}}{\frac{2}{3}} \; ; \; \frac{\frac{6}{5}\times\frac{2}{3}}{\frac{3}{7}\times\frac{7}{4}} \; ; \; \frac{\frac{11}{2}-\frac{7}{4}}{\frac{1}{2}} \; ; \; \frac{\frac{2}{5}+\frac{4}{5}}{3-\frac{3}{5}} \; ; \; \frac{\frac{6}{7}}{\frac{9}{4}-1} \; ; \; \frac{\frac{5}{4}+\frac{3}{2}}{\frac{1}{2}} \; ; \; \frac{\frac{3}{2}}{\frac{9}{4}} \; ; \; \frac{\frac{7}{2}}{21} \; ; \; \frac{3}{\frac{6}{5}}$$

$$\frac{3}{\frac{6}{5}} = \frac{3}{1} \times \frac{5}{6} = \frac{3\times5}{1\times6} = \frac{15}{6} = \frac{5}{2}$$

$$\frac{\frac{7}{2}}{21} = \frac{\frac{7}{2}}{\frac{21}{1}} = \frac{7}{2} \times \frac{1}{21} = \frac{7}{42} = \frac{7:7}{42:7} \quad \frac{1}{6}$$

$$\frac{\frac{3}{2}}{\frac{9}{4}} = \frac{3}{2} \times \frac{4}{9}$$

$$= \frac{3\times1}{2\times1} \times \frac{2\times2}{3\times3} = \frac{2}{3}$$

$$\frac{\frac{5}{4}+\frac{3}{2}}{\frac{1}{2}} = \frac{\frac{5}{4}+\frac{6}{4}}{\frac{1}{2}} = \frac{\frac{11}{4}}{\frac{1}{2}} = \frac{11}{4} \times \frac{2}{1}$$

$$= \frac{11}{2\times2} \times \frac{2}{1}$$

$$= \frac{11}{2}$$

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$= \frac{x+1}{x+2}$

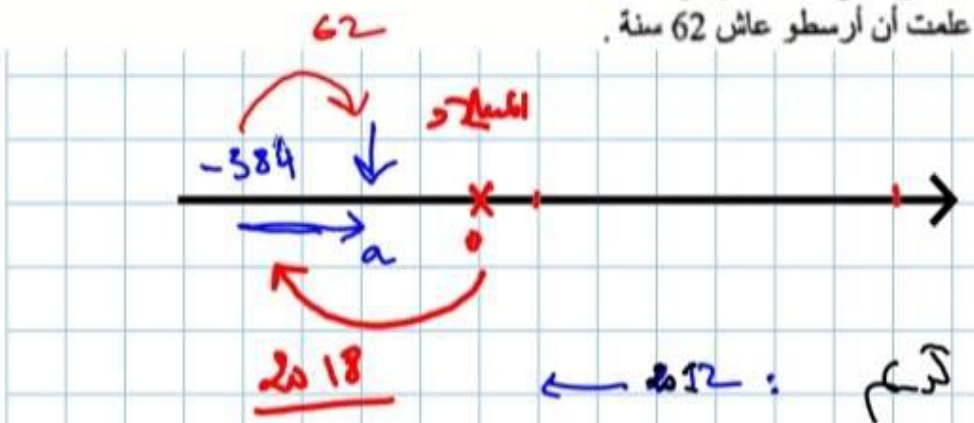
$P = \left(1-\frac{1}{2}\right) \times \left(1-\frac{1}{3}\right) \times \left(1-\frac{1}{4}\right) \times \ldots\ldots \times \left(1-\frac{1}{20}\right)$

$\frac{x+1}{x+2} = 1 - \frac{1}{x+2}$

$P = \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \frac{5}{6} \times \ldots \times \frac{18}{19} \times \frac{19}{20} = \frac{1}{20}$

تمرين عدد 09 : ولد الفيلسوف اليوناني أرسطو سنة 384 قبل الميلاد. ليكن a سنة وفاته .

1) عبر بدلالة a عن عمر هذا الفيلسوف
2) حدد a إذا علمت أن أرسطو عاش 62 سنة .



2018 ← 2012 : تذكير

العمر = سنة الوفاة − سنة الولادة

$a - (-384)$

قبل الميلاد $384 - 62 = 322$

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$= \frac{20}{2} = 10$

$\frac{1}{6} \times \frac{1 \times 4}{2 \times 9} = \frac{1}{6} \times \frac{\frac{2}{9}}{\frac{8}{9}}$ $\qquad \frac{2:2}{8:2} = \frac{1}{4}$

$= \frac{1}{6} \times \frac{2}{9} \times \frac{9}{8}$

$= \frac{1}{6} \times \frac{2}{8}$

$= \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$

تمرين عدد 10: ابحث عن العدد الكسري x في كل حالة من الحالات التالية:

$x+\frac{1}{2}=\frac{5}{4}$ ؛ $x-\frac{7}{3}=4$ ؛ $\frac{3}{5}x=1$ ؛ $\frac{x}{4}=\frac{3}{2}$ ؛ $\frac{1}{3}+\left(x+\frac{11}{3}\right)=\frac{19}{4}$ ؛ $\left(x+\frac{15}{4}\right)\frac{3}{4}=\frac{9}{2}$ ؛ $\frac{x+3}{5}=\frac{2}{3}$ ؛ $\frac{x-5}{3}=\frac{1}{2}$.

$x + \frac{1}{2} = \frac{5}{4}$

$x = \frac{5}{4} - \frac{1}{2}$

$x = \frac{5}{4} - \frac{2}{4}$

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$\frac{a}{b}+\frac{c}{d}=\frac{ad+bc}{bd}$

تمرين عدد 17:

1) طبيعي صحيح عدد x أكبر من 1، أثبت أن $\frac{1}{x(x+1)}=\frac{1}{x}-\frac{1}{x+1}$.

(*) توحيد مقامات

$$\frac{1}{x}-\frac{1}{x+1}=\frac{1\,(x+1)}{x\,(x+1)}-\frac{x\cdot 1}{x(x+1)}$$

$$=\frac{x+1}{x(x+1)}-\frac{x}{x(x+1)}$$

$$=\frac{x+1-x}{x(x+1)}$$

$$=\frac{1}{x(x+1)}$$

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$x = \frac{3}{4}$

$ax = b$
$x = \frac{b}{a}$

$\frac{1}{x} = \frac{1}{\frac{a}{b}}$

$x - \frac{7}{3} = 4$

$x = 4 + \frac{7}{3}$

$x = \frac{12}{3} + \frac{7}{3}$

$x = \frac{19}{3}$

$\frac{3}{5}x = 1$

$x = \frac{1}{\frac{3}{5}}$

$x = \frac{5}{3}$

$\frac{x}{4} = \frac{3}{2}$

$\frac{x}{a} = b$

$x = a \times b$

$x = 4 \times \frac{3}{2}$

اختزال

$x = \frac{6}{1} = 6$

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$\frac{1}{3}+\left(x+\frac{11}{3}\right)=\frac{19}{4}$;

$x+\frac{11}{3}=\frac{19}{4}-\frac{1}{3}$

$x+\frac{11}{3}=\frac{57}{12}-\frac{4}{12}$.

$x+\frac{11}{3}=\frac{53}{12}$

$x=\frac{53}{12}-\frac{11}{3}$

$x=\frac{53}{12}-\frac{44}{12}$

$x=\frac{9}{12}$

$x=\frac{3}{4}$

$\left(x+\frac{15}{4}\right)\frac{3}{4}=\frac{9}{2}$

$x+\frac{15}{4}=\frac{9}{2}+\frac{3}{4}$

$x+\frac{15}{4}=\frac{18}{4}+\frac{3}{4}$

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$$\frac{\frac{6}{7}}{\frac{9}{4}-1} = \frac{\frac{6}{7}}{\frac{9}{4}-\frac{4}{4}} = \frac{\frac{6}{7}}{\frac{5}{4}} = \frac{6}{7} \times \frac{4}{5}$$

$$= \boxed{\frac{24}{35}}$$

$$\frac{2+\frac{4}{5}}{3-\frac{3}{5}} = \frac{\frac{10}{5}+\frac{4}{5}}{\frac{15}{5}-\frac{3}{5}} = \frac{\frac{14}{5}}{\frac{12}{5}}$$

$$= \frac{14}{5} \times \frac{5}{12}$$

$$= \frac{14}{12}$$

$$= \boxed{\frac{7}{6}}$$

$$\frac{5}{2}+\frac{\frac{11}{2}-\frac{7}{4}}{\frac{1}{2}} = \frac{5}{2} + \frac{\frac{22}{4}-\frac{7}{4}}{\frac{1}{2}} = \frac{5}{2} + \frac{\frac{15}{4}}{\frac{1}{2}}$$

$$= \frac{5}{2} + \frac{15}{4} \times \frac{2}{1}$$

$$2 = \frac{5}{2} + \frac{15}{2}$$

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$$A = \frac{70}{3} + \frac{15}{3}$$

$$A = \frac{85}{3}$$

ج. جد العدد الكسري x علما أن $A=\frac{31}{5}$.

$$A = 14x + 5$$

$$\frac{31}{5} = 14x + 5$$

$$\frac{31}{5} - 5 = 14x$$

$$\frac{31}{5} - \frac{25}{5} = 14x$$

$$\frac{6}{5} = 14x$$

$$x = \frac{\frac{6}{5}}{14} = \frac{6}{5} \times \frac{1}{14}$$

$$x = \frac{6}{70}$$

$$x = \frac{3}{35}$$

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$\frac{x-\frac{5}{2}}{3}=\frac{1}{2}$;

$x-\frac{5}{2}=\frac{1}{2}\times 3$

$x-\frac{5}{2}=\frac{3}{2}$

$x=\frac{3}{2}+\frac{5}{2}$

$x=\frac{8}{2}$

$x=4$

تمرين عدد 11:

نعتبر العبارة: $A=2\left(5x+\frac{11}{4}\right)+3\left(\frac{4}{3}x-\frac{1}{6}\right)$ حيث x عددا كسريا.

أ. انشر واختصر العبارة A.

$A=2\times\left(5x+\frac{11}{4}\right)+3\left(\frac{4}{3}x-\frac{1}{6}\right)$

$A=10x+\frac{22}{4}+\frac{12x}{3}-\frac{3}{6}$

$A=10x+\frac{11}{2}+4x-\frac{1}{2}$

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$A = \underbrace{10x + 4x} + \underbrace{\frac{11}{2} - \frac{1}{2}}$

$A = 14x + \frac{10}{2}$

$A = 14x + 5$

ب. احسب قيمة العبارة A في حالة $x=\frac{1}{9}$ وفي حالة $x=\frac{5}{3}$.

ج. جد العدد الكسري x علما أن $A=\frac{31}{5}$.

$A = 14x + 5$

في حالة $x = \frac{1}{9}$

$A = 14 \times \frac{1}{9} + 5$

$A = \frac{14}{9} + \frac{45}{9}$

$A = \frac{59}{9}$

$A = 14x + 5$

في حالة $x = \frac{5}{3}$

$14 \times \frac{5}{3} + 5$

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2) جد المجموع: $S=\frac{1}{1\times2}+\frac{1}{2\times3}+\frac{1}{3\times4}+\frac{1}{4\times5}+\frac{1}{5\times6}+\frac{1}{6\times7}+\frac{1}{7\times8}+\frac{1}{8\times9}+\frac{1}{9\times10}$

$\frac{1}{x(x+1)}=\frac{1}{x}-\frac{1}{x+1}$

$\frac{1}{1\times2}=\frac{1}{1}-\frac{1}{2}$

$\frac{1}{2\times3}=\frac{1}{2}-\frac{1}{3}$

$\frac{1}{3\times4}=\frac{1}{3}-\frac{1}{4}$

$\frac{1}{4\times5}=\frac{1}{4}-\frac{1}{5}$

$\frac{1}{5\times6}=\frac{1}{5}-\frac{1}{6}$

$S=\boxed{1-\frac{1}{2}}+\boxed{\frac{1}{2}-\frac{1}{3}}+\boxed{\frac{1}{3}-\frac{1}{4}}+\boxed{\frac{1}{4}-\frac{1}{5}}+\boxed{\frac{1}{5}-\frac{1}{6}}+\boxed{\frac{1}{6}-\frac{1}{7}}+\boxed{\frac{1}{7}-\frac{1}{8}}+\boxed{\frac{1}{8}-\frac{1}{9}}+\boxed{\frac{1}{9}-\frac{1}{10}}$

$S=1-\frac{1}{10}$

$S=\frac{10}{10}-\frac{1}{10}$

$\boxed{S=\frac{9}{10}}$

تمرين عدد19:

1) $x\in IN$، أثبت أن: $\frac{x+1}{x+2}=1-\frac{1}{x+2}$

2) اختزل العبارة: $P=\left(1-\frac{1}{2}\right)\times\left(1-\frac{1}{3}\right)\times\left(1-\frac{1}{4}\right)\times.....\times\left(1-\frac{1}{20}\right)$

$1-\frac{1}{x+2}$

$\frac{x+2}{x+2}-\frac{1}{x+2}=\frac{x+2-1}{x+2}$

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