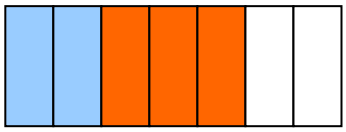
RISORSE DIDATTICHE.

【ResearchGate Project】 *By ... 0000-0001-5086-7401 & lnkd.in/erZ48tm*

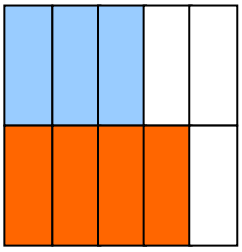
Le quattro operazioni guidate con le frazioni

SOMMA DI FRAZIONI CON UGUAL DENOMINATORE



$$\frac{2}{7}+\frac{3}{7}=\frac{2+3}{7}=\boxed{\frac{5}{7}}$$

$$\frac{4}{9}+\frac{1}{9}=\frac{4+1}{9}=\boxed{\frac{5}{9}}$$



$$\frac{3}{5}+\frac{4}{5}=\frac{3+4}{5}=\boxed{\frac{7}{5}}$$

ORA PROVA TU:

$$\frac{3}{10}+\frac{7}{10}=$$

$$\frac{8}{3}+\frac{7}{3}=$$

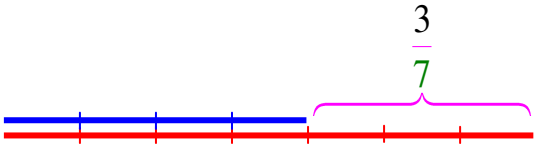
$$\frac{1}{2}+\frac{3}{2}+\frac{7}{2}=$$

$$\frac{3}{4}+\frac{5}{4}+\frac{9}{4}=$$

$$\frac{13}{2}+\frac{7}{2}=$$

$$\frac{1}{15}+\frac{11}{15}+\frac{9}{15}=$$

SOTTRAZIONE DI FRAZIONI CON UGUAL DENOMINATORE



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

$$\frac{4}{9}-\frac{1}{9}=\frac{4-1}{9}=\frac{\cancel{3}^{1}}{\cancel{9}_{3}}=\boxed{\frac{1}{3}}$$

$$\frac{13}{5}-\frac{4}{5}=\frac{13-4}{5}=\boxed{\frac{9}{5}}$$

ORA PROVA TU:

$$\frac{15}{8}-\frac{7}{8}=$$

$$\frac{8}{3}-\frac{5}{3}=$$

$$\frac{23}{6}-\frac{13}{6}-\frac{1}{6}=$$

$$\frac{25}{14}-\frac{5}{14}-\frac{9}{14}=$$

$$\frac{16}{21}-\frac{5}{21}=$$

$$\frac{61}{15}-\frac{18}{15}-\frac{7}{15}=$$

SOMMA DI FRAZIONI
CON DENOMINATORE DIVERSO

ESEMPIO: $\frac{2}{3}+\frac{5}{4}$

- CERCHI IL m.c.m. TRA I DENOMINATORI 3 e 4 = **12**
- DIVIDI **12** PER I DENOMINATORI E MOLTIPICHI PER I NUMERATORI

$12:3\times 2=8$ $\qquad$ $12:4\times 5=15$

$$\frac{2}{3}+\frac{5}{4}=\frac{8+15}{12}=\frac{23}{12}$$

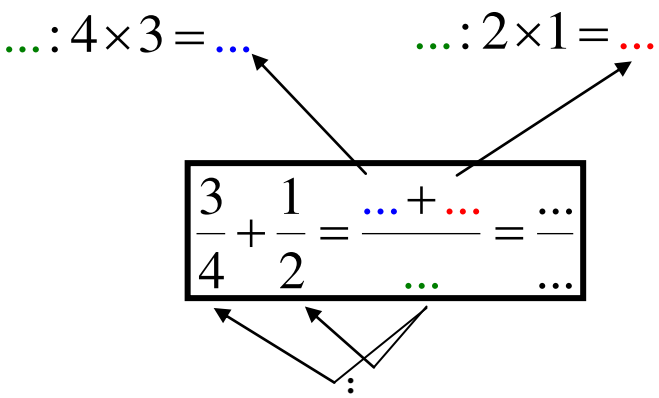
ESEMPIO : $\frac{3}{2}+\frac{6}{5}$ $\qquad$ m.c.m. tra 2 e 5 = **10**

$10:2\times 3=15$ $\qquad$ $10:5\times 6=12$

$$\frac{3}{2}+\frac{6}{5}=\frac{15+12}{10}=\frac{27}{10}$$

ORA PROVA TU:

ESERCIZIO: $\frac{3}{4}+\frac{1}{2}$ m.c.m. tra 4 e 2 = …



ESERCIZIO : $\frac{1}{4}+\frac{5}{2}+\frac{2}{3}$ m.c.m. tra 4; 2; 3 = **…**

$$\frac{1}{4}+\frac{5}{2}+\frac{2}{3}=\frac{\ldots+\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

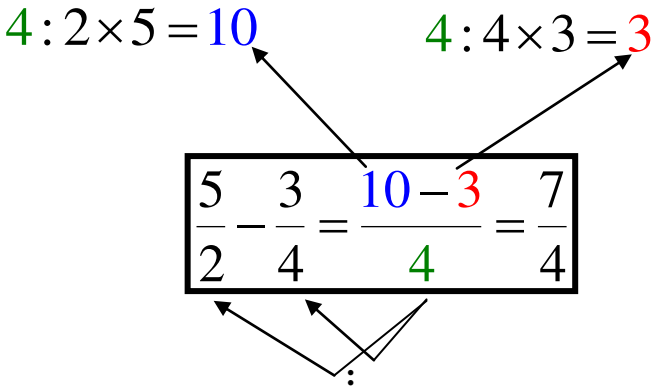
ESERCIZIO : $2+\frac{4}{3}$ m.c.m. tra 1 e 3 = **…**

$$2+\frac{4}{3}=\frac{2}{1}+\frac{4}{3}=\frac{\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

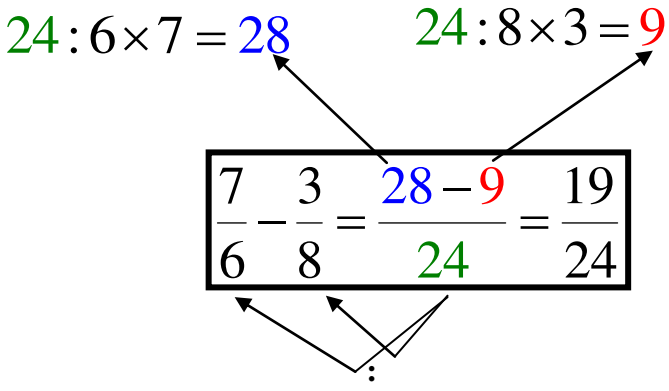
SOTTRAZIONE DI FRAZIONI CON DENOMINATORE DIVERSO

ESEMPIO: $\frac{5}{2}-\frac{3}{4}$

- CERCHI IL m.c.m. TRA I DENOMINATORI 2 e 4 = 4
- DIVIDI **4** PER I DENOMINATORI E MOLTIPICHI PER I NUMERATORI

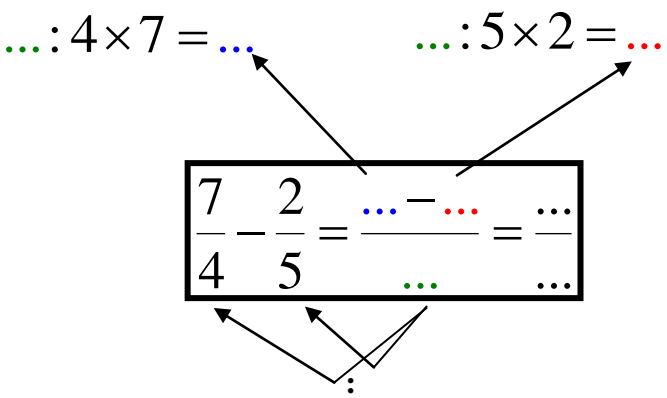


ESEMPIO : $\frac{7}{6}-\frac{3}{8}$ m.c.m. tra 6 e 8 = **24**



ORA PROVA TU:

ESERCIZIO: $\frac{7}{4}-\frac{2}{5}$ m.c.m. tra 4 e 5 = **...**



ESERCIZIO : $\frac{10}{3}-\frac{1}{2}-\frac{2}{5}$ m.c.m. tra 3; 2; 5 = **...**

$$\frac{8}{3}-\frac{1}{2}-\frac{2}{5}=\frac{\ldots-\ldots-\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

ESERCIZIO : $3-\frac{4}{5}$ m.c.m. tra 1; 5 = **...**

$$3-\frac{4}{5}=\frac{3}{1}-\frac{4}{5}=\frac{\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

MOLTIPLICAZIONE DI FRAZIONI

ESEMPIO: $\frac{15}{4} \times \frac{2}{9} =$

$$\frac{15}{4} \times \frac{2}{9} = \overset{5}{\cancel{15}} \times \overset{1}{\cancel{2}} = \frac{5 \times 1}{2 \times 3} = \frac{5}{6}$$
$$\underset{2}{\cancel{4}} \qquad \underset{3}{\cancel{9}}$$

ESEMPIO: $\frac{3}{10} \times \frac{20}{9} =$

$$\frac{3}{10} \times \frac{20}{9} = \overset{1}{\cancel{3}} \times \overset{2}{\cancel{20}} = \frac{1 \times 2}{1 \times 3} = \frac{2}{3}$$
$$\underset{1}{\cancel{10}} \qquad \underset{3}{\cancel{9}}$$

ESEMPIO: $\frac{6}{7} \times \frac{5}{8} \times \frac{14}{5} =$

$$\frac{6}{7} \times \frac{5}{8} \times \frac{14}{5} = \overset{3}{\cancel{6}} \times \overset{1}{\cancel{5}} \times \overset{2}{\cancel{14}} = \frac{3 \times 1 \times 1}{1 \times 2 \times 1} = \frac{3}{2}$$
$$\underset{1}{\cancel{7}} \qquad \underset{4\,2}{\cancel{8}} \qquad \underset{1}{\cancel{5}}$$

ORA PROVA TU:

ESERCIZIO: $\frac{9}{4} \times \frac{2}{15} = \overset{\cdots}{\cancel{9}} \times \overset{\cdots}{\cancel{2}} = \frac{\ldots \times \ldots}{\ldots \times \ldots} = \frac{\ldots}{\ldots}$
$$\underset{\ldots}{\cancel{4}} \qquad \underset{\ldots}{\cancel{15}}$$

ESERCIZIO: $\frac{12}{7} \times \frac{14}{6} \times \frac{3}{9} = \overset{\cdots}{\cancel{12}} \times \overset{\cdots}{\cancel{14}} \times \overset{\cdots}{\cancel{3}} = \frac{\ldots \times \ldots \times \ldots}{\ldots \times \ldots \times \ldots} = \frac{\ldots}{\ldots}$
$$\underset{\ldots}{\cancel{7}} \qquad \underset{\ldots}{\cancel{6}} \qquad \underset{\ldots}{\cancel{9}}$$

DIVISIONE TRA FRAZIONI

IL SIMBOLO : DIVENTA X E LA FRAZIONE CHE SEGUE DIVENTA L'INVERSA

ESEMPIO: $\frac{25}{6} : \frac{5}{9} =$

$\frac{25}{6} : \frac{5}{9} = \frac{25}{6} : \updownarrow \frac{5}{9} = \frac{25}{6} \times \frac{9}{5} = \ldots \text{COME LA} \times \ldots = \overset{5}{\cancel{25}}{}^{2} \times \frac{\cancel{9}^{3}}{\cancel{5}_{1}} = \frac{5 \times 3}{2 \times 1} = \frac{15}{2}$

ESEMPIO: $\frac{3}{8} : \frac{15}{4} =$

$\frac{3}{8} : \frac{15}{4} = \frac{3}{8} \times \frac{4}{15} = \overset{1}{\cancel{3}}{}_{2} \times \frac{\cancel{4}^{1}}{\cancel{15}_{5}} = \frac{1 \times 1}{1 \times 5} = \frac{1}{5}$

ESEMPIO: $\frac{16}{7} : \frac{8}{3} : \frac{5}{14} =$

$\frac{16}{7} : \frac{8}{3} : \frac{5}{14} = \overset{2}{\cancel{16}}{}_{1} \times \frac{3}{\cancel{8}_{1}} \times \frac{\cancel{14}^{2}}{5} = \frac{2 \times 3 \times 2}{1 \times 1 \times 5} = \frac{12}{5}$

ORA PROVA TU:

ESERCIZIO: $\frac{9}{14} : \frac{27}{7} = \frac{9}{14} \times \frac{\ldots}{\ldots} = \overset{\ldots}{\cancel{9}}{}_{\ldots} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} = \frac{\ldots \times \ldots}{\ldots \times \ldots} = \frac{\ldots}{\ldots}$

ESERCIZIO: $\frac{7}{5} : \frac{6}{15} : \frac{7}{4} = \overset{\ldots}{\cancel{7}}{}_{\ldots} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} = \frac{\ldots \times \ldots \times \ldots}{\ldots \times \ldots \times \ldots} = \frac{\ldots}{\ldots}$

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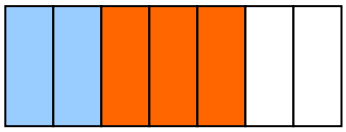

$$\frac{2}{7}+\frac{3}{7}=\frac{2+3}{7}=\boxed{\frac{5}{7}}$$

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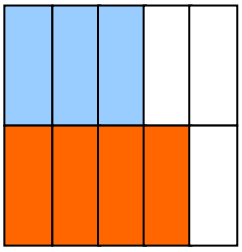

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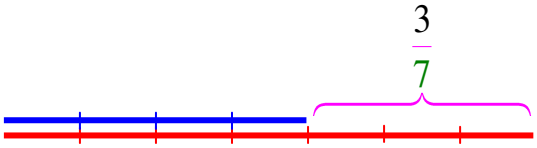
SOTTRAZIONE DI FRAZIONI CON UGUAL DENOMINATORE



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

$$\frac{4}{9}-\frac{1}{9}=\frac{4-1}{9}=\frac{\cancel{3}^{1}}{\cancel{9}_{3}}=\boxed{\frac{1}{3}}$$

$$\frac{13}{5}-\frac{4}{5}=\frac{13-4}{5}=\boxed{\frac{9}{5}}$$

ORA PROVA TU:

$$\frac{15}{8}-\frac{7}{8}=$$

$$\frac{8}{3}-\frac{5}{3}=$$

$$\frac{23}{6}-\frac{13}{6}-\frac{1}{6}=$$

$$\frac{25}{14}-\frac{5}{14}-\frac{9}{14}=$$

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CON DENOMINATORE DIVERSO

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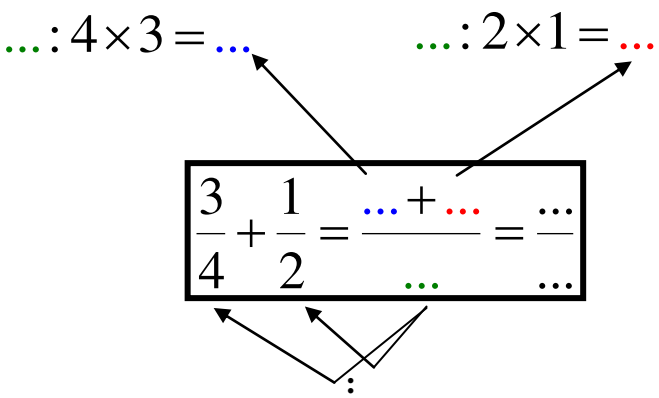
ORA PROVA TU:

ESERCIZIO: $\frac{3}{4}+\frac{1}{2}$ m.c.m. tra 4 e 2 = …



ESERCIZIO : $\frac{1}{4}+\frac{5}{2}+\frac{2}{3}$ m.c.m. tra 4; 2; 3 = **…**

$$\frac{1}{4}+\frac{5}{2}+\frac{2}{3}=\frac{\ldots+\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

ESERCIZIO : $2+\frac{4}{3}$ m.c.m. tra 1 e 3 = **…**

$$2+\frac{4}{3}=\frac{2}{1}+\frac{4}{3}=\frac{\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

SOTTRAZIONE DI FRAZIONI CON DENOMINATORE DIVERSO

ESEMPIO: $\frac{5}{2}-\frac{3}{4}$

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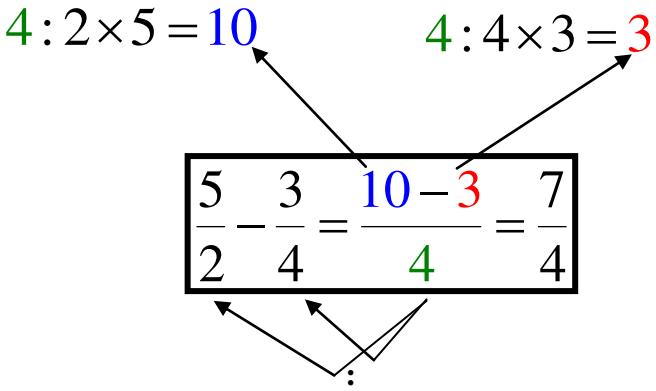
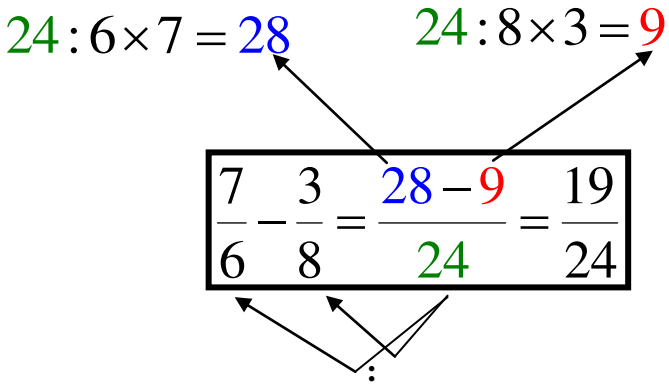
- DIVIDI **4** PER I DENOMINATORI E MOLTIPICHI PER I NUMERATORI

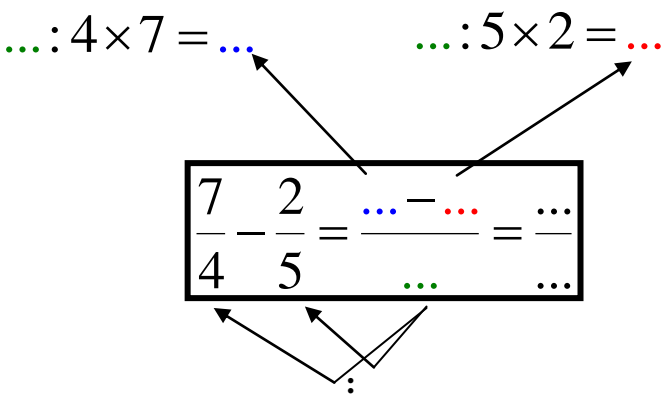


ESEMPIO : $\frac{7}{6}-\frac{3}{8}$ m.c.m. tra 6 e 8 = **24**



ORA PROVA TU:

ESERCIZIO: $\frac{7}{4}-\frac{2}{5}$ m.c.m. tra 4 e 5 = **...**



ESERCIZIO : $\frac{10}{3}-\frac{1}{2}-\frac{2}{5}$ m.c.m. tra 3; 2; 5 = **...**

$$\frac{8}{3}-\frac{1}{2}-\frac{2}{5}=\frac{\ldots-\ldots-\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

ESERCIZIO : $3-\frac{4}{5}$ m.c.m. tra 1; 5 = **...**

$$3-\frac{4}{5}=\frac{3}{1}-\frac{4}{5}=\frac{\ldots+\ldots}{\ldots}=\frac{\ldots}{\ldots}$$

MOLTIPLICAZIONE DI FRAZIONI

ESEMPIO: $\frac{15}{4} \times \frac{2}{9} =$

$$\frac{15}{4} \times \frac{2}{9} = \overset{5}{\cancel{15}} \times \overset{1}{\cancel{2}} = \frac{5 \times 1}{2 \times 3} = \frac{5}{6}$$
$$\underset{2}{\cancel{4}} \qquad \underset{3}{\cancel{9}}$$

ESEMPIO: $\frac{3}{10} \times \frac{20}{9} =$

$$\frac{3}{10} \times \frac{20}{9} = \overset{1}{\cancel{3}} \times \overset{2}{\cancel{20}} = \frac{1 \times 2}{1 \times 3} = \frac{2}{3}$$
$$\underset{1}{\cancel{10}} \qquad \underset{3}{\cancel{9}}$$

ESEMPIO: $\frac{6}{7} \times \frac{5}{8} \times \frac{14}{5} =$

$$\frac{6}{7} \times \frac{5}{8} \times \frac{14}{5} = \overset{3}{\cancel{6}} \times \overset{1}{\cancel{5}} \times \overset{2}{\cancel{14}} = \frac{3 \times 1 \times 1}{1 \times 2 \times 1} = \frac{3}{2}$$
$$\underset{1}{\cancel{7}} \qquad \underset{4\,2}{\cancel{8}} \qquad \underset{1}{\cancel{5}}$$

ORA PROVA TU:

ESERCIZIO: $\frac{9}{4} \times \frac{2}{15} = \overset{\cdots}{\cancel{9}} \times \overset{\cdots}{\cancel{2}} = \frac{\ldots \times \ldots}{\ldots \times \ldots} = \frac{\ldots}{\ldots}$
$$\underset{\ldots}{\cancel{4}} \qquad \underset{\ldots}{\cancel{15}}$$

ESERCIZIO: $\frac{12}{7} \times \frac{14}{6} \times \frac{3}{9} = \overset{\cdots}{\cancel{12}} \times \overset{\cdots}{\cancel{14}} \times \overset{\cdots}{\cancel{3}} = \frac{\ldots \times \ldots \times \ldots}{\ldots \times \ldots \times \ldots} = \frac{\ldots}{\ldots}$
$$\underset{\ldots}{\cancel{7}} \qquad \underset{\ldots}{\cancel{6}} \qquad \underset{\ldots}{\cancel{9}}$$

DIVISIONE TRA FRAZIONI

IL SIMBOLO : DIVENTA X E LA FRAZIONE CHE SEGUE DIVENTA L'INVERSA

ESEMPIO: $\frac{25}{6} : \frac{5}{9} =$

$\frac{25}{6} : \frac{5}{9} = \frac{25}{6} : \updownarrow \frac{5}{9} = \frac{25}{6} \times \frac{9}{5} = \ldots \text{COME LA} \times \ldots = \overset{5}{\cancel{25}}{}^{2} \times \frac{\cancel{9}^{3}}{\cancel{5}_{1}} = \frac{5 \times 3}{2 \times 1} = \frac{15}{2}$

ESEMPIO: $\frac{3}{8} : \frac{15}{4} =$

$\frac{3}{8} : \frac{15}{4} = \frac{3}{8} \times \frac{4}{15} = \overset{1}{\cancel{3}}{}_{2} \times \frac{\cancel{4}^{1}}{\cancel{15}_{5}} = \frac{1 \times 1}{1 \times 5} = \frac{1}{5}$

ESEMPIO: $\frac{16}{7} : \frac{8}{3} : \frac{5}{14} =$

$\frac{16}{7} : \frac{8}{3} : \frac{5}{14} = \overset{2}{\cancel{16}}{}_{1} \times \frac{3}{\cancel{8}_{1}} \times \frac{\cancel{14}^{2}}{5} = \frac{2 \times 3 \times 2}{1 \times 1 \times 5} = \frac{12}{5}$

ORA PROVA TU:

ESERCIZIO: $\frac{9}{14} : \frac{27}{7} = \frac{9}{14} \times \frac{\ldots}{\ldots} = \overset{\ldots}{\cancel{9}}{}_{\ldots} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} = \frac{\ldots \times \ldots}{\ldots \times \ldots} = \frac{\ldots}{\ldots}$

ESERCIZIO: $\frac{7}{5} : \frac{6}{15} : \frac{7}{4} = \overset{\ldots}{\cancel{7}}{}_{\ldots} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} \times \frac{\cancel{\ldots}^{\ldots}}{\cancel{\ldots}_{\ldots}} = \frac{\ldots \times \ldots \times \ldots}{\ldots \times \ldots \times \ldots} = \frac{\ldots}{\ldots}$

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RISORSE DIDATTICHE.

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Esercizi con addizioni e sottrazioni di frazioni. Base. Completi di soluzione guidata.

Addition and Subtraction of Fractions

1.	$\frac{8}{3}-\frac{7}{3}$	$\frac{14}{9}+\frac{7}{9}$	$2+\frac{1}{4}$	soluzione
2.	$\frac{1}{3}+2$	$\frac{1}{3}+\frac{2}{3}$	$\frac{7}{5}-\frac{2}{5}$	soluzione
3.	$\frac{3}{4}-\frac{1}{4}$	$\frac{3}{4}-\frac{1}{2}$	$1-\frac{1}{5}$	soluzione
4.	$\frac{6}{5}-1$	$2-\frac{7}{6}$	$\frac{7}{3}-\frac{1}{2}$	soluzione
5.	$\frac{1}{3}-\frac{1}{4}$	$\frac{2}{3}-\frac{2}{5}$	$\frac{3}{2}+\frac{1}{7}$	soluzione
6.	$1+\frac{3}{5}$	$\frac{15}{25}+\frac{7}{10}$	$\frac{9}{12}-\frac{1}{7}$	soluzione
7.	$\frac{9}{6}-\frac{5}{6}$	$\frac{7}{5}-\frac{2}{3}$	$3-\frac{5}{6}$	soluzione
8.	$\frac{2}{4}-\frac{7}{49}$	$\frac{3}{5}+\frac{1}{7}$	$\frac{8}{12}-\frac{1}{5}$	soluzione
9.	$\frac{20}{7}-\frac{8}{7}+\frac{2}{7}$	$1+\frac{1}{2}+\frac{1}{3}-\frac{5}{12}$	$\frac{17}{4}-\frac{5}{6}+\frac{1}{2}$	soluzione
10.	$\frac{3}{2}+\frac{1}{2}+\frac{7}{2}+\frac{5}{2}$	$\frac{7}{4}+\frac{3}{4}-\frac{1}{4}$	$\frac{2}{3}+\frac{3}{4}-1-\frac{1}{4}$	soluzione
11.	$\frac{3}{2}+\frac{4}{5}-\frac{1}{4}$	$\frac{9}{10}+\frac{1}{2}-1$	$\frac{5}{4}-\frac{6}{7}-\frac{3}{14}$	soluzione
12.	$\frac{2}{21}+\frac{3}{7}-\frac{1}{3}$	$\frac{5}{28}+\frac{3}{14}-\frac{4}{21}$	$\frac{5}{2}+\frac{3}{5}-\frac{1}{4}$	soluzione

13. $\frac{3}{8}+\frac{1}{2}+4+\frac{1}{3}$ $\quad$ $\frac{10}{3}-\frac{15}{18}-\frac{1}{5}$ $\quad$ $\frac{13}{6}-\frac{10}{15}-\frac{3}{5}$ soluzione

14. $\frac{2}{3}+1+\frac{1}{4}-\frac{4}{9}-\frac{7}{18}$ $\quad$ $\frac{6}{7}-\frac{5}{10}-\frac{3}{21}$ soluzione

15. $\frac{3}{7}+\frac{4}{35}+\frac{5}{14}$ $\quad$ $\frac{7}{5}-\frac{49}{50}-\frac{1}{10}$ soluzione

16. $\frac{4}{3}-\frac{1}{2}-\frac{3}{5}$ $\quad$ $\frac{4}{3}-\frac{2}{15}-\frac{3}{5}$ soluzione

17. $\frac{5}{12}+\frac{3}{4}-\frac{1}{3}$ $\quad$ $\frac{5}{4}+\frac{3}{12}+\frac{1}{3}$ soluzione

18. $\frac{5}{18}+\frac{1}{3}-\frac{1}{6}$ $\quad$ $1+\frac{1}{4}-\frac{1}{2}$ soluzione

19. $\frac{5}{3}-\frac{1}{3}-\frac{1}{6}$ $\quad$ $\frac{2}{3}+\frac{11}{36}-\frac{5}{12}$ soluzione

20. $\frac{1}{3}+2-\frac{1}{5}$ $\quad$ $\frac{17}{3}-\frac{1}{2}-1$ soluzione

21. $\frac{1}{2}-\frac{2}{7}-\frac{1}{5}$ $\quad$ $\frac{3}{2}+1-\frac{1}{3}$ soluzione

22. $\frac{5}{4}-\frac{1}{2}-\frac{1}{3}$ $\quad$ $\frac{1}{2}-\frac{1}{5}+\frac{1}{3}$ soluzione

23. $\frac{3}{4}+\frac{1}{5}-\frac{1}{2}$ $\quad$ $\frac{2}{17}+\frac{3}{34}-\frac{1}{17}$ soluzione

24. $\frac{13}{39}-\frac{1}{3}+\frac{2}{3}$ $\quad$ $\frac{1}{2}+\frac{3}{28}-\frac{3}{7}$ soluzione

25. $2-\frac{1}{4}+\frac{2}{5}$ $\quad$ $\frac{9}{2}-2-\frac{1}{6}$

Soluzioni

$$\frac{8}{3}+\frac{7}{3}=\frac{8+7}{3}=\frac{15}{3}=5$$

$$\frac{14}{9}+\frac{7}{9}=\frac{14+7}{9}=\frac{21^{7}}{9^{3}}=\frac{7}{3}$$

$$2+\frac{1}{4}=\frac{8+1}{4}=\frac{9}{4}$$

$$\frac{1}{3}+2=\frac{1}{3}+\frac{6}{3}=\frac{7}{3}$$

$$\frac{1}{3}+\frac{2}{3}=\frac{1+2}{3}=\frac{3}{3}=1$$

$$\frac{7}{5}-\frac{2}{5}=\frac{7-2}{5}=\frac{5}{5}=1$$

$$\frac{3}{4}-\frac{1}{4}=\frac{3-1}{4}=\frac{2}{4}=\frac{1}{2}$$

$$\frac{3}{4}-\frac{1}{2}=\frac{3-2}{4}=\frac{1}{4}$$

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

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

$$2-\frac{7}{6}=\frac{12}{6}-\frac{7}{6}=\frac{5}{6}$$

$$\frac{7}{3}-\frac{1}{2}=\frac{14-3}{6}=\frac{11}{6}$$

$$\frac{1}{3}-\frac{1}{4}=\frac{4-3}{12}=\frac{1}{12}$$

$$\frac{2}{3}-\frac{2}{5}=\frac{10-6}{15}=\frac{4}{15}$$

$$\frac{3}{2}+\frac{1}{7}=\frac{21+2}{14}=\frac{23}{14}$$

$$1+\frac{3}{5}=\frac{5+3}{5}=\frac{8}{5}$$

$$\frac{15^{3}}{25_{5}}+\frac{7}{10}=\frac{3}{5}+\frac{7}{10}=\frac{6+7}{10}=\frac{13}{10}$$

$$\frac{9}{12}-\frac{1}{7}=\frac{63-12}{84}=\frac{51}{84}=\frac{17}{28}$$

$$\frac{9}{6}-\frac{5}{6}=\frac{9-5}{6}=\frac{4^{2}}{6^{3}}=\frac{2}{3}$$

$$\frac{7}{5}-\frac{2}{3}=\frac{21-10}{15}=\frac{11}{15}$$

$$3-\frac{5}{6}=\frac{18-5}{6}=\frac{13}{6}$$

$$\frac{2}{4}-\frac{7^{1}}{4\cancel{9}_{7}}=\frac{14-4}{28}=\frac{10}{28}=\frac{5}{14}$$

$$\frac{3}{5}+\frac{1}{7}=\frac{21+5}{35}=\frac{26}{35}$$

$$\frac{8}{12}-\frac{1}{5}=\frac{40-12}{60}=\frac{28}{60}=\frac{14}{30}=\frac{7}{15}$$

$$\frac{20}{7}-\frac{8}{7}+\frac{2}{7}=\frac{20-8+2}{7}=\frac{14}{7}=2$$

$$1+\frac{1}{2}+\frac{1}{3}-\frac{5}{12}=\frac{12+6+4-5}{12}=\frac{17}{12}$$

$$\frac{17}{4}-\frac{5}{6}+\frac{1}{2}=\frac{51-10+6}{12}=\frac{47}{12}$$

$$\frac{3}{2}+\frac{1}{2}+\frac{7}{2}+\frac{5}{2}=\frac{3+1+7+5}{2}=\frac{16}{2}=8$$

$$\frac{7}{4}+\frac{3}{4}-\frac{1}{4}=\frac{7+3-1}{4}=\frac{9}{4}$$

$$\frac{2}{3}+\frac{3}{4}-1-\frac{1}{4}=\frac{8+9-12-3}{12}=\frac{2}{12}=\frac{1}{12}$$

$$\frac{3}{2}+\frac{4}{5}-\frac{1}{4}=\frac{30+16-5}{20}=\frac{41}{20}$$

$$\frac{9}{10}+\frac{1}{2}-1=\frac{9+5-10}{10}=\frac{4}{10}=\frac{2}{5}$$

$$\frac{5}{4}-\frac{6}{7}-\frac{3}{14}=\frac{35-24-6}{28}=\frac{5}{28}$$

$$\frac{2}{21}+\frac{3}{7}-\frac{1}{3}=\frac{2+9-7}{21}=\frac{4}{21}$$

$$\frac{5}{28}+\frac{3}{14}-\frac{4}{21}=\frac{15+18-16}{84}=\frac{17}{84}$$

$$\frac{5}{2}+\frac{3}{5}-\frac{1}{4}=\frac{50+12-5}{20}=\frac{57}{20}$$

$$\frac{3}{8}+\frac{1}{2}+4+\frac{1}{3}=\frac{9+12+96+8}{24}=\frac{125}{24}$$

$$\frac{10}{3}-\frac{15}{18}-\frac{1}{5}=\frac{10}{3}-\frac{5}{6}-\frac{1}{5}=\frac{100-25-6}{30}=\frac{69}{30}=\frac{23}{10}$$

$$\frac{13}{6}-\frac{10}{15}-\frac{3}{5}=\frac{13}{6}-\frac{2}{3}-\frac{3}{5}=\frac{65-20-19}{30}=\frac{27}{30}=\frac{9}{10}$$

$$\frac{2}{3}+1+\frac{1}{4}-\frac{4}{9}-\frac{7}{18}=\frac{24+36+9-16-14}{36}=\frac{39}{4}$$

$$\frac{6}{7}-\frac{5}{10}-\frac{3}{21}=\frac{6}{7}-\frac{1}{2}-\frac{1}{7}=\frac{12-7-2}{14}=\frac{3}{14}$$

$$\frac{3}{7}+\frac{4}{35}+\frac{5}{14}=\frac{30+8+25}{70}=\frac{63}{70}=\frac{9}{10}$$

$$\frac{7}{5}-\frac{49}{50}-\frac{1}{10}=\frac{70-49-5}{50}=\frac{16}{50}=\frac{8}{25}$$

$$\frac{4}{3}-\frac{1}{2}-\frac{3}{5}=\frac{40-15-18}{30}=\frac{7}{30}$$

$$\frac{4}{3}-\frac{2}{15}-\frac{3}{5}=\frac{40-4-18}{30}=\frac{18}{30}=\frac{9}{15}=\frac{3}{5}$$

$$\frac{5}{12}+\frac{3}{4}-\frac{1}{3}=\frac{5+9-4}{12}=\frac{10}{12}=\frac{5}{6}$$

$$\frac{5}{4}+\frac{3}{12}+\frac{1}{3}=\frac{15+3-4}{12}=\frac{14}{12}=\frac{7}{6}$$

$$\frac{5}{18}+\frac{1}{3}-\frac{1}{6}=\frac{5+6-3}{18}=\frac{8}{18}=\frac{4}{9}$$

$$1+\frac{1}{4}-\frac{1}{2}=\frac{4+1-2}{4}=\frac{3}{4}$$

$$\frac{5}{3}-\frac{1}{3}-\frac{1}{6}=\frac{10-2-1}{6}=\frac{7}{6}$$

$$\frac{2}{3}+\frac{11}{36}-\frac{5}{12}=\frac{24+11-15}{36}=\frac{20}{36}=\frac{10}{18}=\frac{5}{9}$$

$$\frac{1}{3}+2-\frac{1}{5}=\frac{5+30-3}{15}=\frac{32}{15}$$

$$\frac{17}{3}-\frac{1}{2}-1=\frac{34-3-6}{6}=\frac{25}{6}$$

$$\frac{1}{2}-\frac{2}{7}-\frac{1}{5}=\frac{35-20-14}{70}=\frac{1}{70}$$

$$\frac{3}{2}+1-\frac{1}{3}=\frac{9+6-2}{6}=\frac{13}{6}$$

$$\frac{5}{4}-\frac{1}{2}-\frac{1}{3}=\frac{15-6-4}{12}=\frac{5}{12}$$

$$\frac{1}{2}-\frac{1}{5}+\frac{1}{3}=\frac{15-6+10}{30}=\frac{19}{30}$$

$$\frac{3}{4}+\frac{1}{5}-\frac{1}{2}=\frac{15+4-10}{20}=\frac{9}{20}$$

$$\frac{2}{17}+\frac{3}{34}-\frac{1}{17}=\frac{4+3-2}{34}=\frac{5}{34}$$

$$\frac{13}{39}-\frac{1}{3}+\frac{2}{3}=\frac{\cancel{13}^{1}}{\cancel{39}_{3}}-\frac{1}{3}+\frac{2}{3}=\frac{2}{3}$$

$$\frac{1}{2}+\frac{3}{28}-\frac{3}{7}=\frac{14+3-12}{28}=\frac{5}{28}$$

Keywords

Matematica, Aritmetica, Frazioni, Espressioni Q, addizione, sottrazione, moltiplicazione, divisione, esercizi con soluzioni
Math, Arithmetic, Fraction expressions, Fraction, Expression, Addition, Subtraction, Multiplication, Division, Fraction expressions solved
Matemática, Aritmética, Fracción, Expresiones, Resta, Sustracción, Suma, Adición, Multiplicación, División
Mathématique, Arithmétique, Fraction, Problèmes avec fractions, Addition, Soustraction, *Multiplication, Division*
Mathematik, Arithmetik, Bruchrechnung, Bruch, Subtraktion, Addition, Multiplikation, Division

Arabic: كَسْر
Chinese (Simplified): 分数
Chinese (Traditional): 分數
Czech: zlomek
Danish: brøkdel
Dutch: deel, breuk
Estonian: murd(arv)
Finnish: murtoluku
French: fraction
Greek: κλάσμα
Hungarian: hányad, tört(rész)
Icelandic: brot
Indonesian: pecahan
Japanese: 分数
Korean: 분수
Lithuanian: trupmena
Norwegian: brøk(del)
Polish: ułamek
Portuguese (Brazil): fração
Portuguese (Portugal): fracção
Romanian: fracţie
Russian: дробь
Slovak: zlomok
Slovenian: ulomek
Swedish: del
Turkish: kesir

Esercizi con moltiplicazioni e divisioni di frazioni. Base. Completi di soluzione guidata.

Addition and Subtraction of Fractions

1.	$\frac{1}{3}\cdot\frac{1}{3}$	$\frac{1}{4}\cdot\frac{2}{3}$	$\frac{5}{3}\cdot\frac{1}{5}$	soluzione
2.	$\frac{1}{3}\cdot\frac{21}{5}$	$\frac{12}{5}\cdot\frac{1}{6}$	$\frac{55}{14}\cdot\frac{7}{33}$	soluzione
3.	$\frac{14}{5}\cdot\frac{35}{2}$	$\frac{3}{25}\cdot\frac{5}{4}$	$\frac{15}{7}\cdot\frac{14}{25}$	soluzione
4.	$\frac{1}{24}\cdot 8$	$11\cdot\frac{5}{121}$	$39\cdot\frac{3}{13}$	soluzione
5.	$\frac{1}{25}\cdot\frac{5}{3}$	$\frac{7}{55}\cdot 5$	$\frac{14}{15}\cdot 3$	soluzione
6.	$\frac{3}{4}\cdot\frac{4}{3}$	$\frac{12}{5}\cdot\frac{25}{12}$	$\frac{13}{25}\cdot\frac{5}{13}$	soluzione
7.	$\frac{12}{7}\cdot\frac{35}{2}$	$\frac{3}{15}\cdot\frac{3}{2}$	$\frac{34}{5}\cdot\frac{5}{17}$	soluzione
8.	$\frac{4}{5}\cdot\frac{15}{8}$	$\frac{14}{5}\cdot\frac{25}{28}$	$\frac{11}{2}\cdot\frac{16}{33}$	soluzione
9.	$\frac{9}{4}\cdot\frac{7}{18}$	$\frac{12}{39}\cdot\frac{13}{12}$	$\frac{7}{12}\cdot\frac{15}{49}$	soluzione
10.	$\frac{21}{49}\cdot\frac{7}{3}$	$\frac{1}{2}\cdot\frac{4}{9}$	$\frac{40}{7}\cdot\frac{14}{50}$	soluzione
11.	$\frac{1}{2}\cdot\frac{4}{3}\cdot\frac{9}{7}$	$\frac{5}{3}\cdot\frac{7}{9}\cdot\frac{15}{7}$	$\frac{9}{2}\cdot\frac{14}{27}\cdot\frac{1}{7}$	soluzione
12.	$\frac{8}{7}\cdot\frac{2}{3}\cdot\frac{14}{2}$	$\frac{6}{5}\cdot\frac{35}{3}\cdot\frac{1}{14}$	$\frac{2}{9}\cdot\frac{27}{14}\cdot\frac{7}{9}$	soluzione
13.	$\frac{3}{4}\cdot\frac{16}{27}\cdot\frac{36}{5}$	$35\cdot\frac{18}{7}\cdot\frac{5}{9}$	$\frac{17}{8}\cdot\frac{3}{34}\cdot\frac{6}{21}$	soluzione

14.	$\frac{1}{2}:2$	$\frac{1}{2}:\frac{1}{2}$	$\frac{1}{2}:\frac{2}{3}$	soluzione
15.	$\frac{3}{4}:\frac{7}{8}$	$\frac{3}{4}:2$	$\frac{6}{7}:\frac{3}{14}$	soluzione
16.	$\frac{12}{25}:\frac{21}{10}$	$\frac{2}{3}\cdot\frac{39}{5}$	$\frac{15}{17}:\frac{2}{34}$	soluzione
17.	$\frac{1}{2}:\frac{3}{4}$	$\frac{3}{5}\cdot\frac{15}{3}$	$\frac{7}{25}\cdot\frac{5}{21}$	soluzione
18.	$\frac{7}{3}:\frac{14}{3}$	$\frac{14}{3}\cdot\frac{9}{10}$	$\frac{5}{9}\cdot\frac{3}{10}$	soluzione
19.	$\frac{1}{3}:\frac{3}{2}$	$\frac{3}{5}:\frac{7}{5}$	$12:\frac{4}{5}$	soluzione
20.	$\frac{3}{4}\cdot\frac{16}{27}\cdot\frac{36}{5}$	$35\cdot\frac{18}{7}\cdot\frac{5}{9}$	$\frac{17}{8}\cdot\frac{3}{34}\cdot\frac{6}{21}$	soluzione
21.	$\frac{3}{4}:\frac{9}{16}:\frac{1}{2}$	$18:\frac{9}{7}$	$\frac{20}{7}:\frac{10}{3}$	soluzione
22.	$\frac{4}{7}:\frac{1}{14}:\frac{2}{5}$	$\frac{11}{9}\cdot\frac{1}{5}:\frac{22}{9}$	$\frac{2}{5}\cdot\frac{3}{4}:9$	soluzione
23.	$\frac{4}{3}\cdot\frac{8}{5}:\frac{8}{9}$	$\frac{2}{7}\cdot\frac{49}{4}:\frac{7}{5}$	$\frac{7}{5}:\frac{2}{25}\cdot\frac{4}{7}$	soluzione
24.	$\frac{17}{8}:\frac{34}{3}\cdot\frac{6}{12}$	$\frac{1}{35}:\frac{18}{7}:\frac{1}{5}$	$\frac{2}{3}:\frac{3}{2}\cdot\frac{7}{5}$	soluzione
25.	$\frac{1}{8}:\frac{5}{4}\cdot\frac{15}{7}$	$\frac{1}{9}\cdot\frac{18}{5}:\frac{24}{25}$	$\frac{3}{7}:\frac{3}{49}\cdot\frac{7}{2}$	

Soluzioni

$$\frac{1}{3}\cdot\frac{1}{3}=\frac{1}{9}$$

$$\frac{1}{\cancel{4}_{2}}\cdot\frac{\cancel{2}}{3}=\frac{1}{2}\cdot\frac{1}{3}=\frac{1}{6}$$

$$\frac{\cancel{5}}{3}\cdot\frac{1}{\cancel{5}}=\frac{1}{3}\cdot\frac{1}{1}=\frac{1}{3}$$

$$\frac{1}{\cancel{3}}\cdot\frac{\cancel{21}^{7}}{5}=\frac{1}{1}\cdot\frac{7}{5}=\frac{7}{5}$$

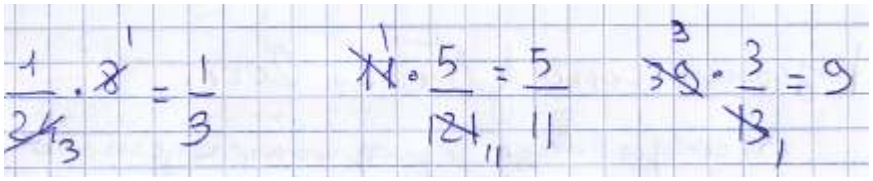
$$\frac{^{2}12}{5}\cdot\frac{1}{\cancel{6}}=\frac{2}{5}\cdot\frac{1}{1}=\frac{2}{5}$$

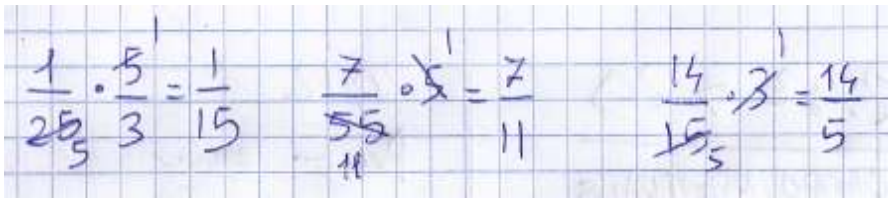
$$\frac{^{5}\cancel{55}}{_{2}\cancel{14}}\cdot\frac{\cancel{7}}{\cancel{33}_{3}}=\frac{5}{2}\cdot\frac{1}{3}=\frac{5}{6}$$

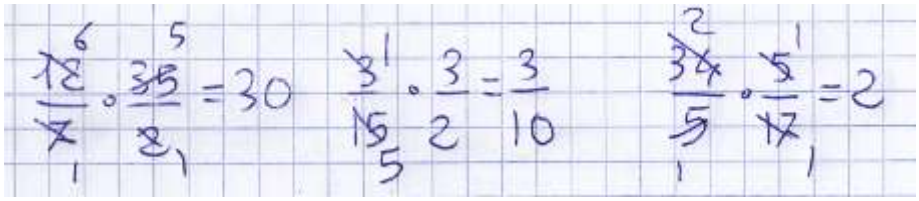
$$\frac{^{7}\cancel{14}}{_{1}\cancel{5}}\cdot\frac{\cancel{35}^{7}}{\cancel{2}_{1}}=\frac{7}{1}\cdot\frac{7}{1}=49$$

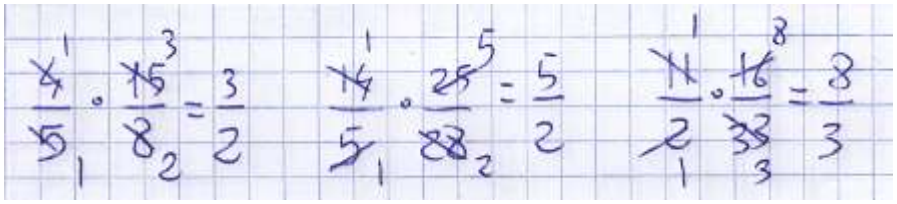
$$\frac{3}{\cancel{25}_{5}}\cdot\frac{\cancel{5}}{4}=\frac{3}{5\cdot\cancel{4}}=\frac{3}{20}$$

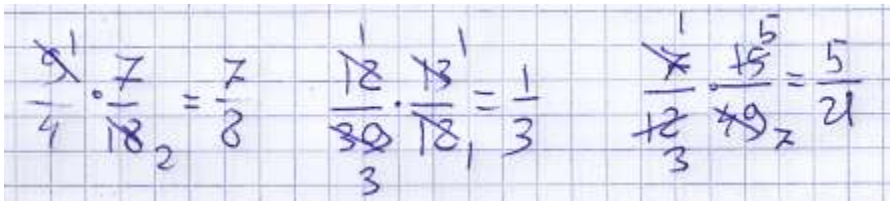
$$\frac{^{3}\cancel{15}}{_{1}\cancel{7}}\cdot\frac{\cancel{14}^{2}}{\cancel{25}_{5}}=\frac{3\cdot 2}{5}=\frac{6}{5}$$

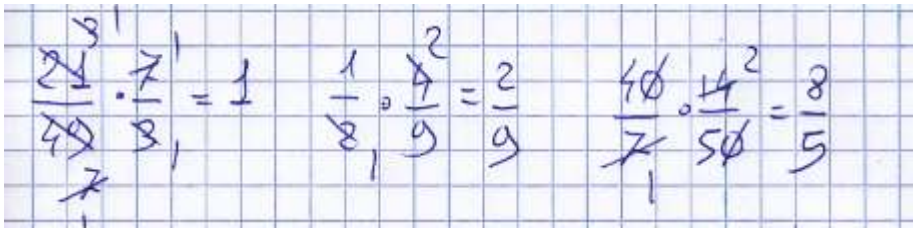


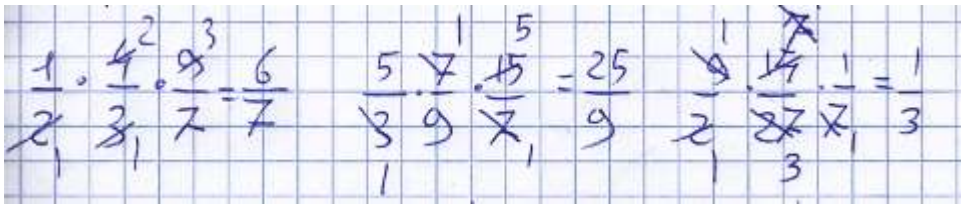


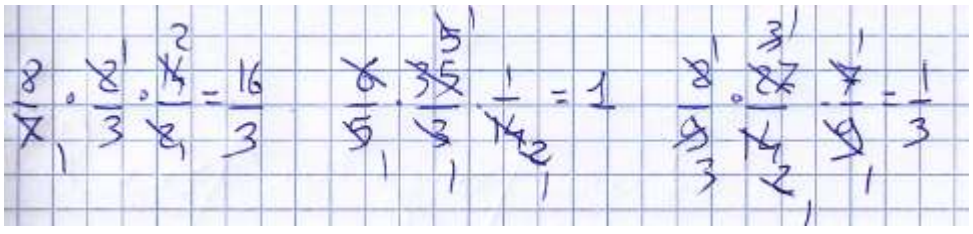


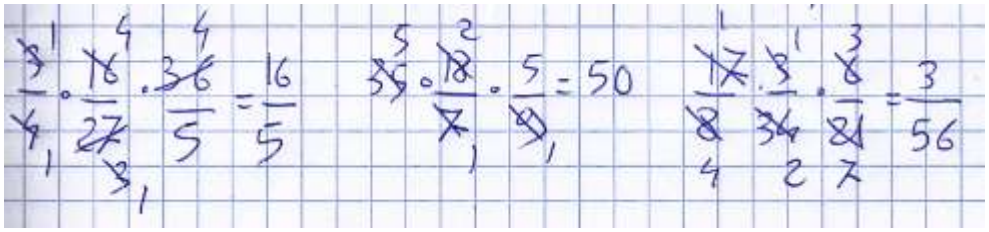












$$\frac{1}{2}:2=\frac{1}{2}\cdot\frac{1}{2}=\frac{1}{4}$$

$$\frac{1}{2}:\frac{1}{2}=\frac{1}{\cancel{2}}\cdot\frac{\cancel{2}}{1}=1$$

$$\frac{1}{2}:\frac{2}{3}=\frac{1}{2}\cdot\frac{3}{2}=\frac{3}{4}$$

$$\frac{3}{4}:\frac{7}{8}=\frac{3}{4}\cdot\frac{8}{7}=\frac{3}{1}\cdot\frac{2}{7}=\frac{6}{7}$$

$$\frac{3}{4}:2=\frac{3}{4}\cdot\frac{1}{2}=\frac{3}{8}$$

$$\frac{6}{7}:\frac{3}{14}=\frac{6}{7}\cdot\frac{14}{3}=\frac{2}{1}\cdot\frac{2}{1}=4$$

$$\frac{12}{25}:\frac{21}{10}=\frac{^{4}\cancel{12}}{_{5}\cancel{25}}\cdot\frac{\cancel{10}^{2}}{\cancel{21}_{7}}=\frac{8}{35}$$

$$\frac{2}{\cancel{3}}\cdot\frac{\cancel{39}^{13}}{5}=\frac{2\cdot 13}{5}=\frac{26}{5}$$

$$\frac{15}{17}:\frac{2}{34}=\frac{15}{\cancel{17}}\cdot\frac{\cancel{34}^{2}}{2}=\frac{15}{2}$$

$$\frac{1}{2}:\frac{3}{4}=\frac{1}{\cancel{2}}\cdot\frac{\cancel{4}^{2}}{3}=\frac{2}{3}$$

$$\frac{3}{5}\cdot\frac{15}{3}=\frac{1}{\cancel{5}}\cdot\frac{\cancel{15}^{3}}{1}=\frac{3}{1}=3$$

$$\frac{\cancel{7}}{\cancel{25}_{5}}\cdot\frac{\cancel{5}}{\cancel{21}_{3}}=\frac{1}{5}\cdot\frac{1}{3}=\frac{1}{15}$$

$$\frac{7}{3}:\frac{14}{3}=\frac{\cancel{7}}{\cancel{3}}\cdot\frac{\cancel{3}}{\cancel{14}_{2}}=\frac{1}{2}$$

$$\frac{14}{3}\cdot\frac{9}{10}=\frac{7\,\cancel{14}}{\cancel{3}}\cdot\frac{\cancel{9}\,3}{\cancel{10}\,2}=\frac{21}{2}$$

$$\frac{5}{9}\cdot\frac{3}{10}=\frac{1}{3}\cdot\frac{1}{2}=\frac{1}{6}$$

$$\frac{1}{3}:\frac{3}{2}=\frac{1}{3}\cdot\frac{2}{3}=\frac{2}{9}$$

$$\frac{3}{5}:\frac{7}{5}=\frac{3}{5}\cdot\frac{5}{7}=\frac{3}{7}$$

$$12:\frac{4}{5}=12\cdot\frac{5}{4}=3\cdot\frac{5}{1}=15$$

$$\frac{3}{4}\cdot\frac{16}{27}\cdot\frac{36}{5}=\frac{16}{5}$$

$$35\cdot\frac{18}{7}\cdot\frac{5}{9}=50$$

$$\frac{17}{8}\cdot\frac{3}{34}\cdot\frac{6}{21}=\frac{1}{4}\cdot\frac{1}{2}\cdot\frac{3}{7}=\frac{3}{56}$$

$$\frac{3}{4}:\frac{9}{16}:\frac{1}{2}=\frac{3}{4}\cdot\frac{16}{9}\cdot\frac{2}{1}=\frac{8}{3}$$

$$18:\frac{9}{7}=\frac{18}{1}\cdot\frac{7}{9}=14$$

$$\frac{20}{7}:\frac{10}{3}=\frac{20}{7}\cdot\frac{3}{10}=\frac{6}{7}$$

$$\frac{4}{7}:\frac{1}{14}:\frac{2}{5}=\frac{4}{7}\cdot\frac{14}{1}\cdot\frac{5}{2}=\frac{20}{1}=20$$

$$\frac{11}{9}\cdot\frac{1}{5}:\frac{22}{9}=\frac{11}{9}\cdot\frac{1}{5}\cdot\frac{9}{22}=\frac{1}{10}$$

$$\frac{2}{5}\cdot\frac{3}{4}:9=\frac{2}{5}\cdot\frac{3}{4}\cdot\frac{1}{9}=\frac{1}{5}\cdot\frac{1}{2}\cdot\frac{1}{3}=\frac{1}{30}$$

$$\frac{4}{3}\cdot\frac{8}{5}:\frac{8}{9}=\frac{4}{3}\cdot\frac{8}{5}\cdot\frac{9}{8}=\frac{4}{1}\cdot\frac{1}{5}\cdot\frac{3}{1}=\frac{12}{5}$$

$$\frac{2}{7}\cdot\frac{49}{4}:\frac{7}{5}=\frac{2}{7}\cdot\frac{49}{4}\cdot\frac{5}{7}=\frac{2}{1}\cdot\frac{1}{4}\cdot\frac{5}{1}=\frac{5}{2}$$

$$\frac{7}{5}:\frac{2}{25}\cdot\frac{4}{7}=\frac{7}{5}\cdot\frac{25}{2}\cdot\frac{4}{7}=\frac{1}{1}\cdot\frac{5}{2}\cdot\frac{4}{1}=10$$

$$\frac{17}{8}:\frac{34}{3}\cdot\frac{6}{12}=\frac{17}{8}\cdot\frac{3}{34}\cdot\frac{6}{12}=\frac{1}{8}\cdot\frac{3}{2}\cdot\frac{1}{2}=\frac{3}{32}$$

$$\frac{1}{35}:\frac{18}{7}:\frac{1}{5}=\frac{1}{35}\cdot\frac{7}{18}\cdot\frac{5}{1}=\frac{1}{5}\cdot\frac{1}{18}\cdot\frac{5}{1}=\frac{1}{18}$$

$$\frac{2}{3}:\frac{3}{2}\cdot\frac{7}{5}=\frac{2}{3}\cdot\frac{2}{3}\cdot\frac{7}{5}=\frac{28}{45}$$

Keywords

Matematica, Aritmetica, Frazioni, Espressioni Q, addizione, sottrazione, moltiplicazione, divisione, esercizi con soluzioni
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Mathématique, Arithmétique, Fraction, Problèmes avec fractions, Addition, Soustraction, *Multiplication, Division*
Mathematik, Arithmetik, Bruchrechnung, Bruch, Subtraktion, Addition, Multiplikation, Division

Arabic: كَسْر
Chinese (Simplified): 分数
Chinese (Traditional): 分數
Czech: zlomek
Danish: brøkdel
Dutch: deel, breuk
Estonian: murd(arv)
Finnish: murtoluku
French: fraction
Greek: κλάσμα
Hungarian: hányad, tört(rész)
Icelandic: brot
Indonesian: pecahan
Japanese: 分数
Korean: 분수
Lithuanian: trupmena
Norwegian: brøk(del)
Polish: ułamek
Portuguese (Brazil): fração
Portuguese (Portugal): fracção
Romanian: fracţie
Russian: дробь
Slovak: zlomok
Slovenian: ulomek
Swedish: del
Turkish: kesir

RISORSE DIDATTICHE.

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Scheda di lavoro sulle potenze di frazioni. Base. Completi di soluzione guidata.

Fractions and exponentiation

Potenze base

1.	$\frac{2^3}{3} =$	$\frac{2}{3^2} =$	soluzione
2.	$\left(\frac{2}{5}\right)^2 =$	$\left(\frac{1}{4}\right)^0 =$	
3.	$\left(\frac{1}{2}\right)^1 =$	$\left(\frac{2}{3^2}\right)^2 =$	
4.	$\left(1-\frac{1}{2}\right)^3 =$	$\left(\frac{3}{5}\right)^4 =$	soluzione
5.	$\left(\frac{4}{3}\right)^0 \cdot \left(\frac{4}{3}\right)^1 =$	$\left(\frac{1}{3}-\frac{1}{3}\right)^0 =$	
6.	$\left(\frac{2}{5}\right)^3 =$	$\left(\frac{1^6}{7}\right)^2 =$	
7.	$\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^1 \cdot \left(\frac{2}{3}\right)^0 =$	$\left[\left(\frac{2}{3}\right)^2\right]^3 =$	soluzione
8.	$\left(1-\frac{3}{4}\right)^1 =$	$\frac{3^0}{3} =$	
9.	$\left(\frac{12}{4}\right)^4 =$	$\left(\frac{0}{3}\right)^2 =$	
10.	$\frac{3^1}{3^2} =$	$\left(\frac{1}{2}\right)^4 : \frac{1}{2} =$	soluzione
11.	$\left(\frac{1}{0}\right)^1 =$	$\left[\left(\frac{2}{3}\right)^2\right]^0 =$	
12.	$\left(\frac{2}{4}\right)^4 =$	$\frac{5^2}{90} =$	
13.	$\left(\frac{5}{10}\right)^3 =$	$\left(\frac{9}{27}\right)^2 =$	
14.	$\frac{7}{8} \cdot \left(\frac{1}{4}\right)^0 =$	$\left(\frac{2^1}{3^2}\right)^2 =$	

Potenze e loro proprietà

$$a^n \cdot a^m = a^{m+n} \ \# \ a^m : a^n = a^{m-n} \ \# \ (a^m)^n = a^{m \cdot n}$$

$$a^x \cdot b^x = (a \cdot b)^x \ \# \ \frac{a^x}{b^x} = \left(\frac{a}{b}\right)^x$$

15.	$\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^2 =$	$\left(\frac{5}{3}\right)^4 : \left(\frac{5}{3}\right)^2 =$	soluzione
16.	$\left(\frac{3}{4}\right)^5 : \left(\frac{3}{4}\right)^4 =$	$\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^3 =$	
17.	$\left[\left(\frac{1}{2}\right)^3\right]^2 =$	$\left[\left(\frac{2}{3}\right)^2\right]^2 =$	
18.	$\left[\left(\frac{1}{4}\right)^0\right]^2 =$	$\left(\frac{2}{3}\right)^3 : \left(\frac{2}{3}\right)^2 =$	
19.	$\left(\frac{2}{3}\right)^5 \cdot \left(\frac{3}{2}\right)^5 =$	$\left(\frac{4}{5}\right)^6 : \left(\frac{4}{5}\right)^6 =$	
20.	$\left(\frac{2}{3}\right)^3 : \left(\frac{2}{3}\right)^2 =$	$\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^2 =$	
21.	$\left(\frac{4}{3}\right)^2 \cdot \left(\frac{4}{3}\right)^3 =$	$\left(\frac{2}{5}\right)^6 : \left(\frac{2}{5}\right)^4 =$	soluzione
22.	$\left[\left(\frac{6}{7}\right)^3 \cdot \left(\frac{6}{7}\right)^4\right]^2 : \left(\frac{6}{7}\right)^{12} =$	$\left(\frac{6}{7}\right)^7 \cdot \left(\frac{6}{7}\right)^4 : \left(\frac{6}{7}\right)^8 =$	
23.	$\left(\frac{6}{7}\right)^7 : \left(\frac{6}{7}\right)^4 : \left(\frac{6}{7}\right)^2 =$	$\left[\left(\frac{3}{4}\right)^3 \cdot \left(\frac{3}{4}\right)^2\right]^2 : \left(\frac{3}{4}\right)^8 =$	
24.	$\left(\frac{2}{3}\right)^2 : \left(\frac{4}{6}\right)^2 =$	$\frac{1}{3} \cdot \left(\frac{1}{3}\right)^4 : \left(\frac{1}{3}\right)^3 =$	
25.	$\left(\frac{2}{3}\right)^3 : \left(\frac{4}{3}\right)^3 =$	$\left(\frac{4}{9}\right)^2 : \left(1 - \frac{5}{9}\right)^2 =$	
26.	$\left(\frac{2}{3}\right)^2 : \left(\frac{9}{4}\right)^2 =$	$\left(\frac{1}{3}\right)^3 : \left(\frac{2}{3}\right)^3 : \frac{1}{2} =$	

Anticipazioni

27. $\left(\frac{2}{3}\right)^{-1} =$ $\left(\frac{1}{2}\right)^{-2} =$

28. $\left(\frac{1}{3}\right)^{-1} =$ $\left(\frac{3}{4}\right)^{-2} =$

29. $\left(\frac{1}{3}\right)^{-3} =$ $\left[\left(\frac{1}{3}\right)^{-1}\right]^{0} =$

30. $\left(\frac{1}{3}\right)^{-2} =$ $\left[\left(\frac{1}{3}\right)^{2}\right]^{-1} =$

$$a^x \cdot a^y = a^{x+y} \ \# \ a^x : a^y = a^{x-y} \ \# \ (a^x)^y = a^{x \cdot y} \ \# \ a^x \cdot b^x = (a \cdot b)^x \ \# \ \frac{a^x}{b^x} = \left(\frac{a}{b}\right)^x$$

Soluzioni

$\frac{2^3}{3}=\frac{8}{3}$	$a^n=\underbrace{a\cdot a\cdot\ldots\cdot a}_{n\ volte}$	$\frac{2}{3^2}=\frac{2}{9}$
$\left(\frac{2}{5}\right)^2=\frac{4}{25}$		$\left(\frac{1}{4}\right)^0=1$ $\quad \forall a\neq 0; a^0=1$
$\left(\frac{1}{2}\right)^1=\frac{1}{2}$	$a^1=a$	$\left(\frac{2}{3^2}\right)^2=\left(\frac{2}{9}\right)^2=\frac{2^2}{3^2}=\frac{4}{81}$

$\left(1-\frac{1}{2}\right)^3=\frac{1}{8}$	$\left(\frac{3}{5}\right)^4=\frac{81}{625}$
$\left(\frac{4}{3}\right)^0\cdot\left(\frac{4}{3}\right)^1=1\cdot\frac{4}{3}=\frac{4}{3}$	$\left(\frac{1}{3}-\frac{1}{3}\right)^0=0^0$ $priva\ di\ significato$
$\left(\frac{2}{5}\right)^3=\frac{2^3}{5^3}=\frac{8}{125}$	$\left(\frac{1^6}{7}\right)^2=\left(\frac{1}{7}\right)^2=\frac{1}{49}$ $(a^x)^y=a^{x\cdot y}$

$\left(\frac{2}{3}\right)^2 \cdot \left(\frac{2}{3}\right)^1 \cdot \left(\frac{2}{3}\right)^0 = \frac{4}{9} \cdot \frac{2}{3} \cdot 1 = \frac{8}{27}$	$\left(\left(\frac{2}{3}\right)^2\right)^3 = \left(\frac{2}{3}\right)^{2 \cdot 3} = \left(\frac{2}{3}\right)^6$
$\left(1 - \frac{3}{4}\right)^1 = \frac{1}{4}$	$\frac{3^0}{3} = \frac{1}{3}$
$\left(\frac{12}{4}\right)^4 = \left(\frac{12:4}{4:4}\right)^4 = 3^4 = 81$	$\left(\frac{0}{3}\right)^2 = 0$ $\forall a \neq 0; 0 : a = 0$

$\frac{3^1}{3^2} = \frac{3}{9} = \frac{1}{3}$	$\left(\frac{1}{2}\right)^4 : \frac{1}{2} = \frac{1}{16} \cdot 2 = \frac{1}{8}$
$\left(\frac{1}{0}\right)^1 = impossibile$	$\left[\left(\frac{2}{3}\right)^2\right]^0 = \left[\frac{4}{9}\right]^0 = 1$
$\left(\frac{2}{4}\right)^4 = \left(\frac{2:2}{4:2}\right)^4 = \left(\frac{1}{2}\right)^4 = \frac{1}{16}$	$\frac{5^2}{90} = \frac{25}{90} = \frac{5}{18}$

$\left(\frac{5}{10}\right)^3 = \left(\frac{1}{2}\right)^3 = \frac{1}{8}$	$\left(\frac{9}{27}\right)^2 = \left(\frac{1}{3}\right)^2 = \frac{1}{9}$
$\frac{7}{8} \cdot \left(\frac{1}{4}\right)^0 = \frac{7}{8} \cdot 1 = \frac{7}{8}$	$\left(\frac{2^1}{3^2}\right)^2 = \frac{4}{81}$

$\left(\frac{1}{3}\right)^2 \cdot \left(\frac{1}{3}\right)^2 = \left(\frac{1}{3}\right)^{2+2} = \left(\frac{1}{3}\right)^4 = \frac{1}{81}$	$\left(\frac{5}{3}\right)^4 : \left(\frac{5}{3}\right)^2 = \left(\frac{5}{3}\right)^{4-2} = \left(\frac{5}{3}\right)^2 = \frac{25}{9}$
$\left(\frac{3}{4}\right)^5 : \left(\frac{3}{4}\right)^4 = \left(\frac{3}{4}\right)^{5-4} = \left(\frac{3}{4}\right)^1 = \frac{3}{4}$	$\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^3 = \left(\frac{1}{2}\right)^{3+3} = \left(\frac{1}{2}\right)^6 = \frac{1}{64}$
$\left[\left(\frac{1}{2}\right)^3\right]^2 = \left(\frac{1}{2}\right)^{3\cdot 2} = \left(\frac{1}{2}\right)^6 = \frac{1}{64}$	$\left[\left(\frac{2}{3}\right)^2\right]^2 = \left(\frac{2}{3}\right)^{2\cdot 2} = \left(\frac{2}{3}\right)^4 = \frac{16}{81}$
$\left[\left(\frac{1}{4}\right)^0\right]^2 = \left(\frac{1}{4}\right)^{0\cdot 2} = \left(\frac{1}{4}\right)^0 = 1$	$\left(\frac{2}{3}\right)^3 : \left(\frac{2}{3}\right)^2 = \left(\frac{2}{3}\right)^{3-2} = \left(\frac{2}{3}\right)^1 = \frac{2}{3}$

$\left(\frac{2}{3}\right)^5 \cdot \left(\frac{3}{2}\right)^5 = \left(\frac{2}{3} \cdot \frac{3}{2}\right)^5 = 1$ $a^x \cdot b^x = (a \cdot b)^x$	$\left(\frac{4}{5}\right)^6 : \left(\frac{4}{5}\right)^6 = \left(\frac{4}{5}\right)^{6-6} = \left(\frac{4}{5}\right)^0 = 1$
$\left(\frac{2}{3}\right)^3 : \left(\frac{2}{3}\right)^2 = \left(\frac{2}{3}\right)^{3-2} = \frac{2}{3}$	$\left(\frac{1}{2}\right)^3 \cdot \left(\frac{1}{2}\right)^2 = \left(\frac{1}{2}\right)^{3+2} \left(\frac{1}{2}\right)^5 = \frac{1}{32}$

$$\left(\frac{4}{3}\right)^2 \cdot \left(\frac{4}{3}\right)^3 = \left(\frac{4}{3}\right)^{2+3} = \frac{4^5}{3^5}$$

$a^x \cdot a^y = a^{x+y}$

$$\left(\frac{2}{5}\right)^6 : \left(\frac{2}{5}\right)^4 = \left(\frac{2}{5}\right)^{6-4} = \frac{4}{25}$$

$a^x : a^y = a^{x-y}$

$$\left[\left(\frac{6}{7}\right)^3 \cdot \left(\frac{6}{7}\right)^4\right]^2 : \left(\frac{6}{7}\right)^{12} =$$

$$= \left[\left(\frac{6}{7}\right)^{3+4}\right]^2 : \left(\frac{6}{7}\right)^{12} =$$

$$= \left[\left(\frac{6}{7}\right)^7\right]^2 : \left(\frac{6}{7}\right)^{12} = \left(\frac{6}{7}\right)^{14-12} = \left(\frac{6}{7}\right)^2$$

$$= \frac{36}{49}$$

$$\left(\frac{6}{7}\right)^7 \cdot \left(\frac{6}{7}\right)^4 : \left(\frac{6}{7}\right)^8 =$$

$$= \left(\frac{6}{7}\right)^{7+4-8} =$$

$$= \left(\frac{6}{7}\right)^3 = \frac{6^3}{7^3}$$

$$\left(\frac{6}{7}\right)^7 : \left(\frac{6}{7}\right)^4 : \left(\frac{6}{7}\right)^2 =$$

$$= \left(\frac{6}{7}\right)^{7-4-2} = \left(\frac{6}{7}\right)^1 = \frac{6}{7}$$

$$\left[\left(\frac{3}{4}\right)^3 \cdot \left(\frac{3}{4}\right)^2\right]^2 : \left(\frac{3}{4}\right)^8 =$$

$$= \left[\left(\frac{3}{4}\right)^{3+2}\right]^2 : \left(\frac{3}{4}\right)^8 =$$

$$= \left[\left(\frac{3}{4}\right)^5\right]^2 : \left(\frac{3}{4}\right)^8 =$$

$$= \left(\frac{3}{4}\right)^{10} : \left(\frac{3}{4}\right)^8 =$$

$$= \left(\frac{3}{4}\right)^{10-8} = \left(\frac{3}{4}\right)^2 = \frac{9}{16}$$

$$\left(\frac{2}{3}\right)^2 : \left(\frac{4}{6}\right)^2 = 1$$

$$\frac{1}{3} \cdot \left(\frac{1}{3}\right)^4 : \left(\frac{1}{3}\right)^3 = \frac{1}{9}$$

$$\left(\frac{2}{3}\right)^3 : \left(\frac{4}{3}\right)^3 =$$

$$= \left(\frac{2}{3} : \frac{4}{3}\right)^3 =$$

$$= \left(\frac{2}{3} \cdot \frac{3}{4}\right)^3 = \left(\frac{1}{2}\right)^3 = \frac{1}{8}$$

$$\left(\frac{4}{9}\right)^2 : \left(1 - \frac{5}{9}\right)^2 =$$

$$= \left(\frac{4}{9}\right)^2 : \left(\frac{4}{9}\right)^2 = 1$$

$$\left(\frac{2}{3}\right)^2 : \left(\frac{9}{4}\right)^2 = \left(\frac{2}{3} : \frac{9}{4}\right)^2 =$$

$$= \left(\frac{2}{3} \cdot \frac{4}{9}\right)^2 = \frac{8^2}{27^2}$$

$$a^x : b^x = (a : b)^x$$

$$\left(\frac{1}{3}\right)^3 : \left(\frac{2}{3}\right)^3 : \frac{1}{2} = \left(\frac{1}{3} \cdot \frac{3}{2}\right)^3 \cdot 2 = \frac{1}{8} \cdot 2$$

$$= \frac{1}{4}$$

$\left(\frac{2}{3}\right)^{-1}=\frac{3}{2}$	$\left(\frac{1}{2}\right)^{-2}=4$
$\left(\frac{1}{3}\right)^{-1}=3$	$\left(\frac{3}{4}\right)^{-2}=\frac{16}{9}$
$\left(\frac{1}{3}\right)^{-3}=27$	$\left(\left(\frac{1}{3}\right)^{-1}\right)^{0}=1$

Keywords

Matematica, Aritmetica, Frazioni, Espressioni Q, addizione, sottrazione, moltiplicazione, divisione, esercizi con soluzioni
Math, Arithmetic, Fraction expressions, Fraction, Expression, Addition, Subtraction, Multiplication, Division, Fraction expressions solved
Matemática, Aritmética, Fracción, Expresiones, Resta, Sustracción, Suma, Adición, Multiplicación, División
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