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 Imię i nazwisko klasa

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**Zadanie 1**

Oblicz sposobem pisemnym:

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| a) | 3,9 + 12,65 = ……..……. |  | 2,27 + 18,643 = ……..……. |  | 5,876 + 6,9 = ……..……. |  | 15,3 + 8,29 + 13,113 = ……..……. |

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| b) | 7 – 3,564 = ……..……. |  | 26,03 – 12,126 = ……..……. |  | 67,2 – 14,82 = ……..……. |  | 90 – 48,27 = ……..……. |

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| c) | 0,7 • 15 = ……..……. |  | 0,25 • 57,6 = ……..……. |  | 3,2 • 6,346 = ……..……. |  | 2,3 • 1,47 = ……..……. |

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| d) | 17,6 : 4 = ……..……. |  | 18 : 0,5 = ……..……. |  | 0,728 : 0,13 = ……..……. |  | 3,875 : 3,1 = ……..……. |  | 7,99 : 3,4 = ……..……. |

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**Zadanie 2**

Oblicz:

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| $$2\frac{1}{3} +3\frac{3}{4}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$4 ∙2\frac{3}{8}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$3\frac{1}{4} +5\frac{5}{6}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$3\frac{1}{2} ∙2\frac{4}{7}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$3\frac{2}{3}+6\frac{7}{9}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$2\frac{5}{7} ∙4\frac{2}{3}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$1\frac{5}{6} +2\frac{2}{9}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$3\frac{3}{5} ∙2\frac{1}{2}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$5\frac{3}{8} +3\frac{1}{6}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$1\frac{7}{9} ∙3\frac{3}{4}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$9-3\frac{3}{7}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$7\frac{3}{11} :1\frac{9}{11}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$6\frac{1}{2}-3\frac{2}{9}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$8 :1\frac{1}{5}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$4\frac{3}{8}-1\frac{7}{10}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$10\frac{2}{3} : \frac{8}{9}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$6-2\frac{6}{11}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $$\frac{7}{20 } :1\frac{5}{9}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$8\frac{4}{15}-3\frac{9}{20}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  | $$4\frac{2}{7} :3\frac{1}{13}= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Zadanie 3**

Wykonaj obliczenia, pamiętając o kolejności wykonywania działań:

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| $$3\frac{1}{2} ∙ \frac{1}{7} +1\frac{4}{5} :4\frac{1}{2}=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| (4 2,16) • 0,6 1,89 : 0,9 = |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$\left(3,8-2,9\right)∙\left( \frac{3}{8}+ 0,125\right)= $$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$\left( 8\frac{1}{3}- 8,1 \right) ∙ \left(9-4\frac{5}{7} \right) =$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$\left(2\frac{1}{3} - \frac{5}{12}+1,5\right) : \left(2,75- \frac{5}{6} \right)=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Zadanie 4**

Oblicz:

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| $\left( 5^{2}- 3^{2 }\right) :2^{2}+ 2^{3}=$  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| $$\left( 7^{2} - 3^{3}\right) :\left( 4^{2}-2^{3}-6 \right)=$$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Zadanie 5**

Znajdź rozwinięcia dziesiętne podanych liczb. Zapisz w skróconej postaci ułamki dziesiętne okresowe:

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| $$\frac{9}{20}$$ | = |  |  | $$1\frac{2}{9}$$ | = |  |  | $$\frac{5}{13}$$ | = |  |  | $$\frac{9}{11}$$ | = |  |

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**Zadanie 7**

Jakie liczby kryją się pod literami?

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| a) |  |  |  |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifa |  |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifb |  |  |  |  |  |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifc | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifd |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | 10,2 |  |  |  | 10,7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| b) |  |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gife |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.giff |  |  |  |  |  |  |  |  |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifg |  |  | C:\Program Files\Microsoft Office\MEDIA\OFFICE12\Bullets\BD14870_.gifh |  |  |  |  |  |  |  |  |  |  |
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**Zadanie 8**

Pan Tomek kupił 75 dag gruszek po 3,60 zł za kilogram i ćwierć kilograma winogron po 5,40 zł. Ile reszty otrzymał, płacąc banknotem dziesięciozłotowym?

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**Zadanie 9**

Zosia dostała 35 zł kieszonkowego. $\frac{2}{5}$ tych pieniędzy wydała na bilet do kina, a $\frac{3}{7}$ na książkę. Ile pieniędzy jej jeszcze zostało?

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**Zadanie 10**

Oblicz:

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| a) | $\frac{2}{3}$ kwoty 60 zł =  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| b) | $\frac{5}{6}$ długości 42 km =  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| c) | $\frac{4}{7}$ liczby 210 = |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Zadanie 11**

Oblicz średnią arytmetyczną liczb: $\frac{2}{5}$ , $1\frac{1}{3}$ , 2,75.

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**Zadanie 12**

Turyści w ciągu trzech dni przeszli 60 km. Pierwszego dnia pokonali $\frac{1}{3}$ całej trasy, a drugiego $\frac{3}{5}$ tego co jeszcze do przejścia pozostało. Resztę trasy przeszli trzeciego dnia. Ile kilometrów przeszli trzeciego dnia?

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