

10,25-5

MATEMATYKA

Przedmiot

Nazwisko Demska

Imię Kasia

Klasa IIIb

Rok szkolny 79/80

Zakłady Celulozowo Paplarnicze
im. J. Marchlewskiego we Włocławku
Zeszyt szkolny 16-kartkowy
z papieru III klasy — PN-62/P-50004
Cena detaliczna zł 1,-

W klasie 26.02.80.

Wyrażenia dwumianowane.

10 m. 30 cm.



miana

5 kg. 30 dag.



miana

5 zł. 50 gr.



miana

1 m. 1 cm. - jednostki długości

1 kg. 1 dag. - jednostki masy

1 zł. 1 gr. - jednostka pieniędzy

W klasie 27.02.80.

Dziesiątne i setne części
metra, kilograma, złotego.

W klasie 28.02.80 nr.

Dodawanie i odejmowanie wyników dwumianowanych.

$$5 \text{ cm} = 0,05 \text{ m}$$

$$8 \text{ cm} = 0,08 \text{ m}$$

$$15 \text{ cm} = 0,15 \text{ m}$$

$$80 \text{ cm} = 0,80 \text{ m} = 0,8 \text{ m}$$

$$0,08 \text{ m} = 8 \text{ cm}$$

$$0,35 \text{ m} = 35 \text{ cm}$$

$$3,2 \text{ m} = 320 \text{ cm}$$

$$5 \text{ dag} = 0,05 \text{ kg}$$

$$30 \text{ dag} = 0,30 \text{ kg} = 0,3 \text{ kg}$$

$$0,25 \text{ kg} = 25 \text{ dag}$$

$$2,15 \text{ kg} = 215 \text{ dag}$$

zt	gr.
3	50
4	20
200	50
211	20

$$3,50$$

$$4,20$$

$$\begin{array}{r} 200,50 \\ + 11,20 \\ \hline 211,70 \end{array}$$

Zad.1

kg	dag
5	25
7	30
+1	35
13	90

$$5,25 \text{ kg}$$

$$5,25$$

$$7,3 \text{ kg}$$

$$7,3$$

$$\begin{array}{r} + 1,35 \text{ kg} \\ 13,90 \text{ kg} \end{array}$$

$$\begin{array}{r} + 1,35 \\ 13,90 \end{array}$$

kg	dag
14	08
14	25
6	83

$$14,08 \text{ kg}$$

$$14,08$$

$$\begin{array}{r} 14,25 \text{ kg} \\ - 7,25 \text{ kg} \\ \hline 6,83 \end{array}$$

$$\begin{array}{r} 14,25 \\ - 7,25 \\ \hline 6,83 \end{array}$$

W domu

Str. 121, zad. 2

$$\begin{array}{r} 45,15 \\ + 2,85 \\ \hline 48,00 \end{array}$$

$$\begin{array}{r} 88,55 \\ + 77,90 \\ \hline 166,45 \end{array}$$

$$\begin{array}{r} 98,35 \\ + 29,65 \\ \hline 128,00 \end{array}$$

$$\begin{array}{r} 100,20 \\ + 5,40 \\ \hline 105,60 \end{array}$$

$$\begin{array}{r} 58,8 \\ + 12,82 \\ \hline 71,62 \end{array}$$

$$\begin{array}{r} 24,40 \\ + 5,65 \\ \hline 30,05 \end{array}$$

$$\begin{array}{r} 72,11 \\ - 67,15 \\ \hline 4,96 \end{array}$$

$$\begin{array}{r} 45,18 \\ - 45,18 \\ \hline 0,00 \end{array}$$

11,50	21,85	82,24	21,85
+ 10,65	+ 14,25	- 48,42	- 44,25
<u>22,15</u>	<u>36,10</u>	<u>33,82</u>	<u>07,60</u>

W klasie 29.02.80r.

Rozwiązywanie zadań - wyrażenia dwumianowe.

$$\begin{array}{r} 0,25 \\ 0,50 \\ 1,0 \\ 0,20 \\ + 1,80 \\ \hline 3,75 \end{array}$$

$$100 - (38,50 + 35,40 + 20,50) = 5,60$$

38,50	100,00
35,40	<u>34,40</u>
+ 20,50	<u>560</u>
<u>94,40</u>	
4	

W domu

Str. 122, zad. 4, 8, 10

Zad. 4

$$\begin{array}{r} 1,33 \text{ m.} \\ + 1,27 \text{ m.} \\ \hline 0,06 \end{array}$$

Odp: Bogdan jest wyższy od Piotra o 6 cm.

Zad. 8

$$\begin{array}{r} 53,08 \\ - 9,24 \\ \hline + 35,65 \\ \hline 98,00 \end{array}$$

$$\begin{array}{r} 145,4 \\ - 86,45 \\ \hline 59,35 \end{array}$$

Zad. 10

$$25 - (11,50 + 4,80) = 25 - 16,30 = 8,70 - 1,50 = 7,20$$

$$\begin{array}{r} 11,50 \\ + 4,80 \\ \hline 16,30 \end{array}$$

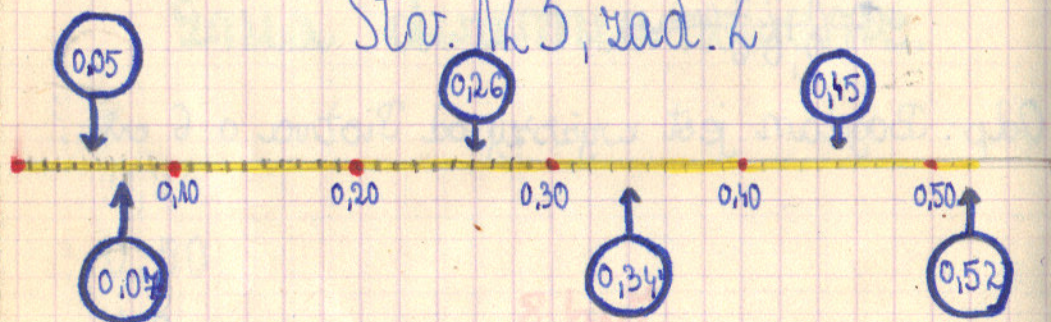
$$\begin{array}{r} 25,00 \\ - 16,30 \\ \hline 8,70 \end{array}$$

$$\begin{array}{r} 8,40 \\ -1,50 \\ \hline 7,20 \end{array}$$

Odp: Książka kosztowała 7,20 zł.

W domu

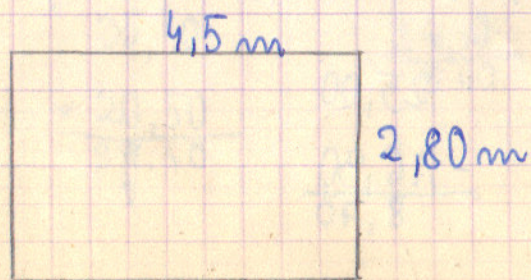
Str. 123, zad. 2



W klasie

Porównywanie zadań
z treścią utamki dziesiętne.

Zad. 1



4,5

4,5

2,85

$$\begin{array}{r} 2,85 \\ +14,70 \\ \hline 17,55 \end{array}$$

Odp: Podłoga ma obwód 17,55 m.

Zad. 2

1,5

0,75

0,25

$$\begin{array}{r} 0,2 \\ +2,40 \\ \hline 2,60 \end{array}$$

2,85

$$\begin{array}{r} 2,85 \\ -2,40 \\ \hline 0,45 \end{array}$$

Odp: Ser. waży 15 dag.

W domu

$$x + 6,45 = 14,70$$

$$x - 8,25 = 10,50$$

$$x + 6,45 = 14,70$$

$$14,70$$

$$x = 14,70 - 6,45$$

$$\begin{array}{r} 14,70 \\ - 6,45 \\ \hline 8,25 \end{array}$$

$$x = 8,25$$

$$x - 8,25 = 10,50$$

$$10,50$$

$$x = 10,50 + 8,25$$

$$\begin{array}{r} 10,50 \\ + 8,25 \\ \hline 18,75 \end{array}$$

$$x = 18,75$$

$$x = 18,74, 18,73, 18,72 \dots 8,25$$

W klasie

6.03.80r

Porównywanie ułamków
dziesiętnych.

$$0,08 > 0,04$$

$$0,05 > 0,01$$

$$0,25 < 0,42$$

$$0,20 = 0,2$$

$$0,35 < 0,53$$

$$0,11 > 0,01$$

$$0,5 = 0,50$$

$$1,43 > 0,43$$

$$2,45 < 3,53$$

$$5,09 < 9,05$$

$$7,23 > 6,23$$

$$9,40 = 9,4$$

$$0,1 < 0,3$$

$$0,3 > 0,2$$

$$2,0 \leq 2,3$$

$$25,4 < 25,5$$

$$0,5 = 0,5$$

$$0,2 < 0,5$$

$$3,2 > 3,0$$

$$18,3 > 1,83$$

$$0,9 > 0,8$$

$$0,7 > 0,6$$

$$4,3 > 5,8$$

$$47,5 > 4,45$$

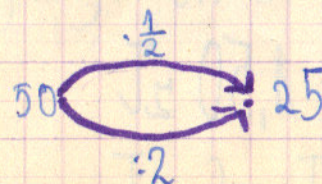
W klasie

10.03.80r

Ułamki - potowa.

$\frac{1}{2}$ - licznik
- kreska ułamkowa
mianownik

$$\frac{1}{2} \cdot 50 = 50 : 2 = 25$$



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

$$\frac{1}{2} = 0,5$$

W domu

Str. 127, zad. 2, 3, 4.

zad. 2

$$1\frac{1}{2} \text{ m} + 0,5 \text{ m} = 2 \text{ m}$$

$$3,5 \text{ kg} - \frac{1}{2} \text{ kg} = 3 \text{ kg}$$

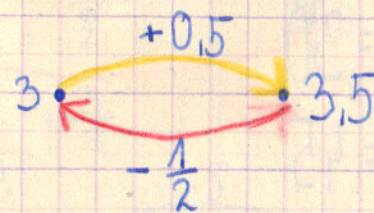
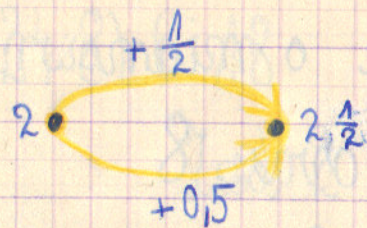
$$4\frac{1}{2} \text{ kg} - 1,5 \text{ kg} = 3 \text{ kg}$$

$$5,5 \text{ m} + 2\frac{1}{2} \text{ m} = 8 \text{ m}$$

$$3,50 \text{ zL} - 2 \text{ zL} = 1,50 \text{ zL}$$

$$5,50 \text{ zL} + 0,50 \text{ zL} = 6 \text{ zL}$$

Zad. 3



Zad. 4

$$\frac{1}{2} + 2,5 = 3$$

$$2\frac{1}{2} - 2,5 = 0$$

$$3 + 0,5 + \frac{1}{2} = 4$$

$$4\frac{1}{2} - 1,5 = 3$$

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

$$\frac{1}{2} - 0,5 = 0$$

$$0,5 + 0,5 = 1$$

$$6\frac{1}{2} + 3,5 = 10$$

Wklasie

11.03.80 ~

Wamki o mianowniku

4 oraz 8

$$\frac{3}{4} \cdot 32 = (32 : 4) \cdot 3 = 24$$

$$\frac{3}{4} \cdot 40 = (40 : 4) \cdot 3 = 30$$

$$\frac{3}{4} \cdot 60 = (60 : 4) \cdot 3 = 45$$

$$\frac{3}{4} \cdot 100 = (100 : 4) \cdot 3 = 75$$

$$\frac{3}{4} \cdot 20 = (20 : 4) \cdot 3 = 15$$

$$\frac{3}{4} \cdot 24 = (24 : 4) \cdot 3 = 18$$

Str. 130 Zad. 2 Str. 129 zad. 2

$$\frac{1}{2} \cdot 24 = (24 : 2) \cdot 1 = 12$$

$$\frac{1}{4} \cdot 24 = (24 : 4) \cdot 1 = 6$$

$$\frac{2}{4} \cdot 24 = (24 : 4) \cdot 2 = 12$$

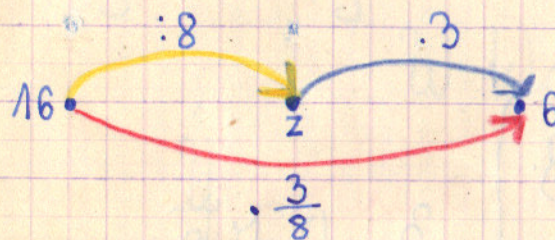
$$\frac{2}{8} \cdot 24 = (24 : 8) \cdot 2 = 6$$

$$\frac{4}{8} \cdot 24 = (24 : 8) \cdot 4 = 12$$

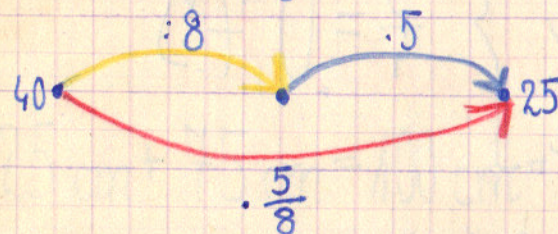
$$\frac{3}{4} \cdot 24 = (24 : 4) \cdot 3 = 18$$

$$\frac{6}{8} \cdot 24 = (24 : 8) \cdot 6 = 18$$

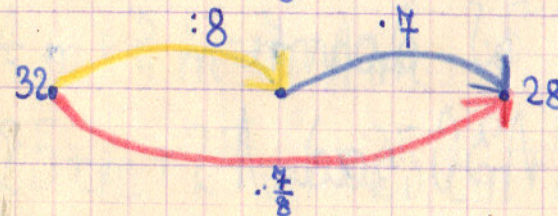
Zad. 2



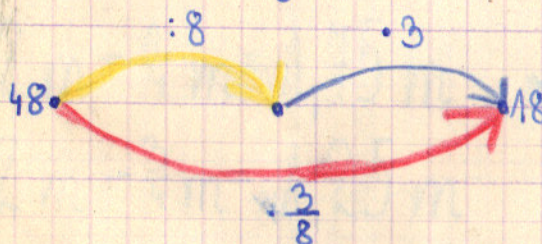
$$16 \cdot \frac{3}{8} = (16 : 8) \cdot 3 = 6$$



$$40 \cdot \frac{5}{8} = (40 : 8) \cdot 5 = 25$$



$$(32 : 8) \cdot 7 = 28$$



$$48 \cdot \frac{3}{8} = (48 : 8) \cdot 3 = 18$$

W klasie 12.03.80r.

Ułamki o mianowniku

4 i 8 - ćwiczenia i zadania.

$$\left. \begin{array}{l} \frac{3}{4} \text{ kg} = 0,75 \text{ kg.} \\ \frac{3}{4} \text{ zł} = 0,75 \text{ zł} \\ \frac{3}{4} \text{ m} = 0,75 \text{ m} \end{array} \right\} \frac{3}{4} = 0,75$$

W domu

Str. 130, zad. 1

$$\frac{1}{4} \text{ kg.} = 0,25 \text{ kg.}$$

$$\frac{2}{4} \text{ kg.} = 0,50 \text{ kg.}$$

$$\frac{3}{4} \text{ kg} = 0,75 \text{ kg.}$$

$$\frac{4}{4} \text{ kg} = 0,50 \text{ kg.}$$

$$\frac{1}{4} \text{ kg} = 0,25 \text{ kg.}$$

$$\frac{2}{4} \text{ kg} = 0,50 \text{ kg.}$$

$$\frac{3}{4} \text{ kg} = 0,75 \text{ kg.}$$

W klasie 13.03.80r.

Ułamki o mianowniku

4 i 8 - ćwiczenia i zadania.

$$25 \text{ cm} + 75 \text{ cm} = 100 \text{ cm} = 1 \text{ m}$$

$$\frac{1}{4} \text{ m} + \frac{3}{4} \text{ m} = \frac{4}{4} = 1 \text{ m}$$

$$25 \text{ cm} + 25 \text{ cm} + 25 \text{ cm} + 25 \text{ cm} = 100 \text{ cm} = 1 \text{ m}$$

$$2 \text{ m} - \frac{1}{4} \text{ m} = 1,75 \text{ m}$$

$$2 \text{ m} - \frac{3}{4} \text{ m} = 1,25 \text{ m}$$

$$2 \text{ m} + \frac{3}{4} \text{ m} = 2,75 \text{ m}$$

$$1\frac{1}{4} \text{ kg.} + \frac{3}{4} \text{ kg.} = 2 \text{ kg.}$$

$$1\frac{3}{4} \text{ kg.} - \frac{1}{2} \text{ kg.} = 1,25 \text{ kg.}$$

$$\frac{1}{4} \text{ m} + \frac{1}{4} \text{ m} + \frac{1}{4} \text{ m} + \frac{1}{4} \text{ m} + \frac{1}{4} \text{ m} = 1 \text{ m}$$

$$2\frac{1}{2} \text{ kg.} - \frac{3}{4} \text{ kg.} = 1,75 \text{ kg.}$$

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

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

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

$$\underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{\frac{4}{8} = \frac{1}{2}} + \underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{\frac{3}{8} = \frac{1}{4}} = 1$$

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

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

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

$$1 - \frac{1}{8} = \frac{7}{8}$$

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

$$1 - \frac{4}{8} = \frac{1}{2}$$

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

$$\frac{1}{8} + \frac{2}{8} = \frac{3}{8} \quad \frac{1}{8} + \frac{4}{8} = \frac{5}{8} \quad \frac{1}{8} + \frac{6}{8} = \frac{7}{8} \quad \frac{3}{8} + \frac{2}{8} = \frac{5}{8}$$

$$\frac{1}{8} + \frac{1}{8} = \frac{2}{8} = \frac{1}{4} \quad \frac{5}{8} + \frac{1}{8} = \frac{6}{8} = \frac{3}{4} \quad \frac{4}{8} + \frac{3}{8} = \frac{7}{8} = \frac{1}{2}$$

$$1\frac{3}{8} + \frac{1}{8} = 1\frac{4}{8} \quad 2\frac{3}{8} + \frac{3}{8} = 2\frac{6}{8} \quad 3\frac{1}{8} + \frac{5}{8} = 3\frac{6}{8}$$

$$2\frac{4}{8} - \frac{3}{8} = 2\frac{1}{8} \quad 2\frac{1}{2} + \frac{1}{8} = 2\frac{4}{8} + \frac{1}{8} = 2\frac{5}{8}$$

$$3 - \frac{3}{8} = 2\frac{8}{8} - \frac{3}{8} = 2\frac{5}{8} \quad 2\frac{1}{4} - \frac{2}{8} = 2\frac{2}{8} - \frac{2}{8} = 2$$

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

W klasie 14.03.80m

Zadania i ćwiczenia -
dodawanie i odejmowanie
łamków.

$$\frac{1}{8} + \frac{1}{2} = \frac{1}{8} + \frac{4}{8} = \frac{5}{8}$$

$$2\frac{3}{4} - \frac{7}{8} = 2\frac{6}{8} - \frac{7}{8} = 1\frac{14}{8} - \frac{7}{8} = 1\frac{7}{8}$$

$$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{3}{8} + \frac{1}{2} = \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

$$\frac{5}{8} + 0,25 = \frac{5}{8} + \frac{1}{4} = \frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

$$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8} = \frac{1}{8}$$

$$0,75 - \frac{5}{8} = \frac{6}{8} - \frac{5}{8} = \frac{1}{8}$$

$$0,5 - \frac{3}{8} = \frac{4}{8} - \frac{3}{8} = \frac{1}{8}$$

$$\frac{7}{8} + \frac{1}{4} = \frac{7}{8} + \frac{2}{8} = \frac{9}{8} = 1\frac{1}{8}$$

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

$$\frac{7}{8} + 0,5 = \frac{7}{8} + \frac{4}{8} = \frac{11}{8} = 1\frac{3}{8}$$

$$2\frac{3}{4} - \frac{7}{8} = 2\frac{6}{8} - \frac{7}{8} = 1\frac{11}{8} - \frac{7}{8} = 1\frac{4}{8}$$

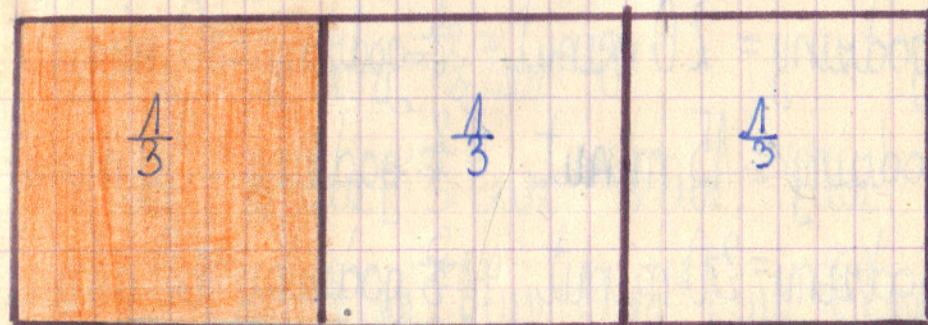
$$3\frac{3}{8} - \frac{3}{4} = 3\frac{3}{8} - \frac{6}{8} = 2\frac{11}{8} - \frac{6}{8} = 2\frac{5}{8}$$

$$5,5 - \frac{7}{8} = 5\frac{4}{8} - \frac{7}{8} = 4\frac{12}{8} - \frac{7}{8} = 4\frac{5}{8}$$

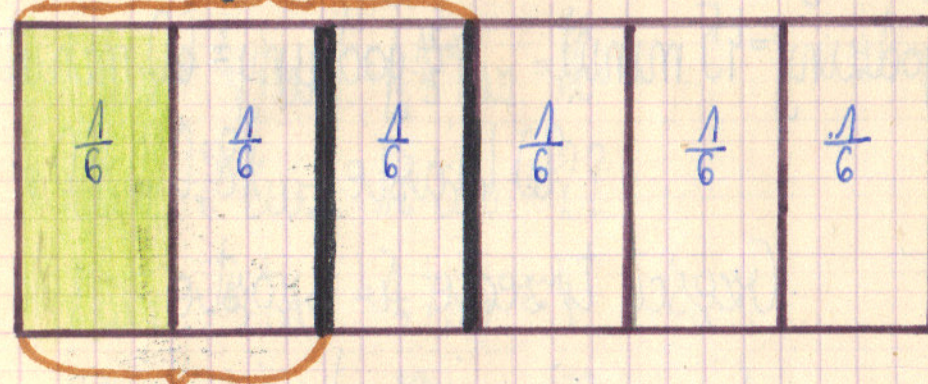
$$10,25 - 5\frac{5}{8} = 10\frac{2}{8} - 5\frac{5}{8} = 9\frac{10}{8} - 5\frac{5}{8} = 4\frac{5}{8}$$

W klasie

Części trzeciej ~~na~~ szóste.



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



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

W domu
cw. 4 str 133

$\frac{1}{3}$ godziny = 20 minut	$\frac{2}{3}$ godziny = 40 minut
$\frac{2}{6}$ godziny = 20 minut	$\frac{4}{6}$ godziny = 40 minut
$\frac{4}{4}$ godziny = 15 minut	$\frac{2}{4}$ godziny = 30 minut
$\frac{1}{2}$ godziny = 30 minut	$\frac{3}{3}$ godziny = 60 minut
$\frac{3}{6}$ godziny = 30 minut	$\frac{6}{6}$ godziny = 60 minut
$\frac{3}{4}$ godziny = 45 minut	$\frac{4}{4}$ godziny = 60 minut

W klasie 18.03.80 r.

Gzesci trzecie i szoste-
chwierzenia i zadania.

W domu
Str 134 cw. 1, 2, 3, 4

Zad. 1

$$\frac{1}{3} \text{ tur.} + \frac{1}{3} \text{ tur.} = \frac{2}{3} \text{ tur.} = 8$$

$$\frac{1}{3} \text{ tur.} + \frac{1}{3} \text{ tur.} + \frac{1}{3} \text{ tur.} = \frac{3}{3} \text{ tur.} = 1 \text{ tur.}$$

$$\frac{1}{6} \text{ tur.} + \frac{1}{6} \text{ tur.} + \frac{1}{6} \text{ tur.} + \frac{1}{6} \text{ tur.} + \frac{1}{6} \text{ tur.} + \frac{1}{6} \text{ tur.} = \frac{6}{6} \text{ tur.} = 1 \text{ tur.}$$

$$\frac{1}{6} \text{ tur.} + \frac{5}{6} \text{ tur.} = \frac{6}{6} \text{ tur.} = 1 \text{ tur.}$$

$$1 \text{ tur.} + \frac{1}{3} \text{ tur.} = 1\frac{1}{3} \text{ tur.} = 16$$

$$1 \text{ tur.} + \frac{5}{6} \text{ tur.} = 1\frac{5}{6} \text{ tur.} = 22$$

$$1 \text{ tur.} - \frac{2}{3} \text{ tur.} = \frac{1}{3} \text{ tur.} = 4$$

$$2 \text{ tur.} - \frac{3}{6} \text{ tur.} = 1\frac{3}{6} \text{ tur.} = 18$$

$$2 \text{ tur.} - \frac{5}{6} \text{ tur.} = 1\frac{1}{6} \text{ tur.} = 14$$

Zad. 2

$$\frac{1}{3}h + \frac{1}{6}h = 20 \text{ min.} + 10 \text{ min.} = 30 \text{ min.}$$

$$\frac{1}{6}h + \frac{1}{4}h = 10 \text{ min.} + 15 \text{ min.} = 25 \text{ min.}$$

$$\frac{1}{2}h + \frac{1}{3}h + \frac{1}{4}h + \frac{1}{6}h = 30 \text{ min.} + 20 \text{ min.} + 15 \text{ min.} + 10 \text{ min.} = 75 \text{ min.}$$

Zad. 3

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

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

$$\frac{5}{6} + \frac{1}{6} = \frac{6}{6} = 1 \quad 2 - \frac{5}{6} = 1\frac{1}{6}$$

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

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

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

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

Zad. 4

$$36 \text{ zł.} - 6 \text{ zł.} - 12 \text{ zł.} = 18 \text{ zł.}$$

Odp: Steni pozostało jeszcze 18 zł.

W klasie

20.03.80 r.

Str. 80 i 81.

$$\frac{1}{8} + \frac{1}{2} = \frac{1}{8} + \frac{4}{8} = \frac{5}{8}$$

$$\frac{7}{8} - \frac{1}{4} = \frac{7}{8} - \frac{2}{8} = \frac{5}{8}$$

$$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{5}{8} - \frac{1}{2} = \frac{5}{8} - \frac{4}{8} = \frac{1}{8}$$

$$\frac{3}{8} + \frac{1}{2} = \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

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

$$\frac{7}{8} + \frac{1}{4} = \frac{7}{8} + \frac{2}{8} = \frac{9}{8} = 1\frac{1}{8}$$

$$3\frac{3}{8} - \frac{3}{4} = 2\frac{5}{8}$$

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

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

$$\frac{2}{3} + \frac{5}{6} = \frac{4}{6} + \frac{5}{6} = \frac{9}{6} = 1\frac{3}{6}$$

$$\frac{1}{3} - \frac{1}{6} = \frac{2}{6} - \frac{1}{6} = \frac{1}{6}$$

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

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

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

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

W klasie

21.03.80 r.

Zadania na dodawanie łamków.

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

$$\frac{4}{8} + \frac{6}{8} = \frac{10}{8} = 1\frac{2}{8}$$

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

$$\frac{1}{8} + \frac{7}{8} = \frac{8}{8} = 1$$

$$2\frac{3}{8} + \frac{2}{8} = 2\frac{5}{8}$$

$$\frac{7}{8} + \frac{1}{8} + \frac{2}{8} = \frac{10}{8} = 1\frac{2}{8}$$

$$\frac{5}{8} - \frac{4}{8} = \frac{1}{8}$$

$$\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$$

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

$$\frac{4}{8} + \frac{5}{8} = \frac{9}{8} = 1\frac{1}{8}$$

$$\frac{7}{8} + \frac{2}{8} = \frac{9}{8} = 1\frac{1}{8}$$

$$\frac{8}{8} + \frac{2}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$$

$$\frac{4}{8} + \frac{7}{8} = \frac{11}{8} = 1\frac{3}{8}$$

$$\frac{1}{8} + \frac{2}{8} + \frac{3}{8} = \frac{6}{8}$$

$$\frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$

$$\frac{9}{8} - \frac{3}{8} = \frac{6}{8}$$

$$1\frac{10}{8} - \frac{7}{8} = 1\frac{3}{8}$$

$$\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$$

$$\frac{20}{8} - \frac{10}{8} = \frac{10}{8} = 1\frac{2}{8}$$

$$\frac{23}{8} - \frac{3}{8} = \frac{20}{8} = 2\frac{4}{8}$$

W klasie

Łamki o mianowniku 5 i 10

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

$$\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = 1$$

$$\frac{1}{5} \text{ zł} - \text{to } 2 \text{ } 10 \text{ gr} = 20 \text{ gr}$$

$$\frac{1}{10} - \text{to } 10 \text{ gr.}$$

$$\frac{1}{5} \cdot 10 = 2$$

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

$$\frac{2}{5} \cdot 10 = 4$$

$$\frac{4}{10} \cdot 10 = 4$$

$$\frac{3}{5} \cdot 10 = 6$$

$$\frac{6}{10} \cdot 10 = 6$$

$$\frac{4}{5} \cdot 10 = 8$$

$$\frac{8}{10} \cdot 10 = 8$$

Zad. 2

$$\frac{5}{10} \text{ m} = \frac{5}{10} \cdot 100 \text{ cm} = (100 \text{ cm} : 10) \cdot 5 = 50 \text{ cm} = \frac{1}{2} \text{ m}$$

$$\frac{2}{5} \text{ m} = \frac{2}{5} \cdot 100 \text{ cm} = 40 \text{ cm} = \frac{4}{10} \text{ m}$$

$$\frac{2}{5} \text{ kg} = \frac{2}{5} \cdot 100 \text{ dag} = 40 \text{ dag} = \frac{4}{10} \text{ kg}$$

$$\frac{2}{5} \text{ h} = \frac{2}{5} \cdot 60 \text{ min} = 24 \text{ min} = \frac{4}{10} \text{ h}$$

$$\frac{3}{5} \text{ m} = \frac{3}{5} \cdot 100 \text{ cm} = 60 \text{ cm} = \frac{6}{10} \text{ m}$$

$$\frac{3}{5} \text{ kg} = \frac{3}{5} \cdot 100 \text{ dag} = 60 \text{ dag} = \frac{6}{10} \text{ kg}$$

$$\frac{3}{5} \text{ h} = \frac{3}{5} \cdot 60 \text{ min} = 36 \text{ min} = \frac{6}{10} \text{ h}$$

$$\frac{4}{5} \text{ m} = \frac{4}{5} \cdot 100 \text{ cm} = 80 \text{ cm} = \frac{8}{10} \text{ m}$$

$$\frac{4}{5} \text{ kg} = \frac{4}{5} \cdot 100 \text{ dag} = 80 \text{ dag} = \frac{8}{10} \text{ kg}$$

$$\frac{4}{5} \text{ h} = \frac{4}{5} \cdot 60 \text{ min} = 48 \text{ min} = \frac{8}{10} \text{ h}$$

W domu

Str. 136, zad. 1, 2, 3, 4

Zad. 1

$$\frac{2}{5} \cdot 20 = 8$$

$$\frac{2}{5} \cdot 12 = 8$$

Zad. 2

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

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

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

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

$$\frac{3}{10} + \frac{7}{10} = \frac{10}{10} = 1$$

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

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

$$\frac{1}{10} + \frac{9}{10} = \frac{10}{10} = 1$$

$$\frac{2}{10} + \frac{3}{10} = \frac{5}{10} = \frac{1}{2}$$

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

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

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

Zad. 3.

$$\frac{2}{5} = \frac{4}{10} = 0,4$$

$$\frac{3}{5} = \frac{6}{10} = 0,6$$

$$\frac{4}{5} = \frac{8}{10} = 0,8$$

Zad. 4.

$$\frac{2}{5} \cdot 40 \text{ cm} = 16 \text{ cm}$$

$$\frac{3}{5} \cdot 40 \text{ cm} = 24 \text{ cm}$$

$$\frac{4}{5} \cdot 40 \text{ cm} = 32 \text{ cm}$$

W klasie

25.03.80

Zadania i ćwiczenia
na ulamkach

$$\frac{1}{2} \cdot 18 = 9$$

$$\frac{1}{2} \cdot 250 = 125 \quad \frac{4}{8} \cdot 8 = 4$$

$$\frac{1}{2} \cdot 62 = 31$$

$$\frac{1}{2} \cdot 980 = 490 \quad \frac{3}{8} \cdot 32 = 12$$

$$\frac{1}{2} \cdot 34 = 17$$

$$\frac{1}{2} \cdot 120 = 60 \quad \frac{5}{8} \cdot 16 = 10$$

$$\frac{1}{2} \cdot 86 = 43$$

$$\frac{1}{2} \cdot 102 = 51 \quad \frac{3}{4} \cdot 40 = 30$$

$$\frac{4}{4} \cdot 32 = 8$$

$$\frac{3}{4} \cdot 20 = 15 \quad \frac{3}{8} \cdot 16 = 6$$

$$\frac{4}{8} \cdot 32 = 4$$

$$\frac{3}{8} \cdot 48 = 18$$

$$\frac{5}{8} \cdot 32 = 20$$

$$\frac{5}{8} \cdot 72 = 45$$

$$\frac{3}{8} \cdot 32 = 12$$

$$\frac{3}{8} \cdot 72 = 27$$

$$\frac{4}{8} \cdot 32 = 16$$

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

$$\frac{3}{4} \cdot 32 = 24$$

$$\frac{3}{4} \cdot 24 = 18$$

$$\frac{3}{8} \cdot 56 + \frac{5}{8} \cdot 64 - 4 \cdot \frac{3}{4} = 21 + 40 - 3 = 58$$

$$\frac{2}{3} \cdot 18 = 12$$

$$\frac{2}{3} \cdot 27 = 18$$

$$\frac{5}{6} \cdot 30 = 25$$

$$\frac{5}{6} \cdot 42 = 35$$

$$\frac{2}{3} \cdot 36 = 24$$

$$\frac{5}{6} \cdot 48 = 40$$

$$\frac{4}{6} \cdot 60 = 40$$

$$\frac{2}{3} \cdot 60 = 40$$

$$\frac{2}{3} \cdot 72 = 48$$

$$\frac{5}{6} \cdot 72 = 300$$

W klasie 26.0

$$\frac{1}{4} \text{ m} = 25 \text{ cm} \quad \frac{1}{4} \text{ cm} = 0,25 \text{ m.}$$

$$\frac{1}{4} \text{ kg} = 25 \text{ dag} \quad \frac{1}{4} \text{ dag} = 0,25 \text{ kg.}$$

$$\frac{1}{2} \text{ dob} = 12 \text{ godz.} \quad \frac{2}{4} \text{ dob} = 12 \text{ godz.}$$

$$\frac{3}{4} \text{ m} = 75 \text{ cm} \quad \frac{3}{4} \text{ m} = 0,75 \text{ cm}$$

$$\frac{3}{4} \text{ kg} = 75 \text{ dag} \quad \frac{3}{4} \text{ kg} = 0,75 \text{ dag}$$

$$\frac{1}{8} + \frac{1}{2} = \frac{1}{8} + \frac{4}{8} = \frac{5}{8}$$

$$\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{7}{8}$$

$$\frac{3}{8} + \frac{1}{2} = \frac{3}{8} + \frac{4}{8} = \frac{7}{8}$$

$$\frac{5}{8} + 0,25 = \frac{5}{8} + \frac{2}{8} = \frac{7}{8}$$

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

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

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

$$\frac{7}{8} + 0,5 = \frac{7}{8} + \frac{4}{8} = 1\frac{3}{8}$$

$$\frac{7}{8} - \frac{4}{4} = \frac{3}{8}$$

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

$$0,25 + \frac{5}{8} = \frac{6}{8} = \frac{3}{4}$$

$$0,5 - \frac{3}{8} = \frac{1}{8}$$

$$2\frac{3}{4} - \frac{7}{8} = 1\frac{5}{8}$$

$$3\frac{3}{8} - \frac{3}{4} = 2\frac{5}{8}$$

$$5,5 - \frac{7}{8} = 4\frac{5}{8}$$

$$10,25 - 5, \frac{5}{8} = 10\frac{2}{8} - 5\frac{5}{8} = 9\frac{10}{8} - 5\frac{5}{8} = 4\frac{5}{8}$$

10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8

10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8

10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8
 10,25 - 5, 5/8 = 10 2/8 - 5 5/8 = 9 10/8 - 5 5/8 = 4 5/8