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

f2) $\left(\frac{10}{2}\right)\left(\frac{2(1+x)}{5}\right) \cdot 10$

$6 - 25x = -15(1-x)$

$20x - 15x = -15 - 6$

$-35x = -21 \quad | (-35)$

$x = \frac{-21}{-35}$

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

3.1) $\frac{5}{12} \cdot 24 - \frac{9}{36} \cdot \frac{18}{3} = \quad 24 = \frac{24}{1} = \frac{24}{10}$

$= \frac{5}{1} \cdot \frac{24}{12} - \frac{9}{36} \cdot \frac{18}{3} =$

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

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

3.2) $\frac{2\frac{2}{3} \cdot 1\frac{2}{5}}{2\frac{1}{3} - 1\frac{2}{3}} = \frac{\frac{8}{3} + \frac{8}{5}}{\frac{7}{3} - \frac{5}{3}} =$

$= \frac{\frac{40+24}{15}}{\frac{2}{3}} = \frac{\frac{64}{15}}{\frac{2}{3}} =$

$= \frac{24 \cdot 3}{15 \cdot 1} = \frac{32}{5}$

8.1) 35% z 24 h

100% ... 24 h

1% ... 0,24 h

35% ... 35 · 0,24 = 8,4 h

$\frac{35}{100} \cdot \frac{24}{1} = 8{,}4\ h \quad 8\ h$

$0{,}4 \cdot 60 = 24\ min$

8.2) 15% z 24 h

$0{,}15 \cdot 24 = 3{,}6\ h$

úklid 35% z 3,6 h = 21 min.

$0{,}35 \cdot 216 - 75{,}6 = 76\ min$

8.3) denní povinnosti 3,6 h

40% z 3,6 h

$0{,}4 \cdot 216 = 86{,}4\ min$

5 dní $86{,}4 \cdot 5 = 432\ min$

7 h 12 min

2)

$V = 18\ l = 18\ dm^3$

$V = S_p \cdot v$

$18 = 30 \cdot v \quad | : 30$

$\frac{18}{30} = v$

$0{,}6\ dm = v$

$6\ cm = v$

7) $\frac{1}{8}x$ | B | H | $\frac{5}{6}x$ celkový počet = x

7.1) $\frac{1}{8}x$

7.2) $1 + \frac{5}{6}x$

7.3) $\frac{1}{8}x + 2 + \frac{5}{6}x = x \quad | \cdot 24$

$24 \cdot \frac{1}{8}x + 2 \cdot 24 + 24 \cdot \frac{5}{6}x = 24 \cdot x$

$3x + 48 + 20x = 24x$

$23x + 48 = 24x$

$48 = 24x - 23x$

$48 = x$