

Ging av Prov.

1a)

$$4y + x$$

b)

$$5z + 1$$

c) $9x + 7y$

d)

$$8x - (5 + 3x)$$

$$8x - 5 - 3x$$

$$5x - 5$$

e)

$$x(8 + 4x - 3)$$

$$8x + 4x^2 - 3x$$

$$5x + 4x^2$$

$$2. A = x(2x+1) = \underline{2x^2 + x}$$

$$O = 2(2x+1+x) = 4x+2+2x = \underline{6x+2}$$

$$= 2x+1+x+2x+1+x = \underline{\underline{6x+2}}$$

$$3. \quad x+7$$

Ekv.

4c)

$$x=7$$

b)

$$x=60$$

c)

$$6x + 48 - 2x - 10 = 2x + 27$$

$$4x + 38 = 2x + 27$$

$$2x = -11$$

$$x = -5,5$$

Ⓐ

5.

$$P = X$$

$$L = X + 16$$

$$P + L = 352 \text{ cm}$$

$$X + (X + 16) = 352$$

$$2X + 16 = 352$$

$$2X = 336$$

$$X = 168$$

$$P = X = 168 \text{ cm}$$

$$L = (X + 16) = 184 \text{ cm}$$

Svar: $P = 168 \text{ cm}$
 $L = 184 \text{ cm}$

Om man vill,

$$\left(\begin{array}{l} \frac{352}{2} = 176 \\ P \rightarrow 176 - 8 \\ L \rightarrow 176 + 8 \end{array} \right)$$

6.

$$A = X$$

$$L = X + 27$$

$$V = 2X$$

$$A + L + V = 363 \text{ kr}$$

$$X + (X + 27) + 2X = 363$$

$$4X + 27 = 363$$

$$4X = 336$$

$$X = 84 \text{ kr}$$

$$A = X = 84 \text{ kr}$$

$$L = (X + 27) = 111 \text{ kr}$$

$$V = 2X = 168 \text{ kr}$$

7.

12% rabatt \Rightarrow 96kr

Ursprungspreis? (X)

$$X \cdot 0,12 = 96 \text{ kr}$$

a) $0,12x = 96$

b) $\frac{0,12x}{0,12} = \frac{96}{0,12}$

$$x = 800 \text{ kr}$$

$$800 - 96 \text{ kr} = \underline{\underline{704 \text{ kr}}}$$

8.

Tal 1:

X

Tal 2:

$X+1$

Tal 3:

$X+2$

Tal 4:

$X+3$

$$X + X+1 + X+2 + X+3 = 92$$

$$4x + 6 = 92$$

$$4x = 86$$

ei heltal $x = 21,5$

b) antingen 94 eller 90

9.

$$\frac{4}{5} - \frac{3}{4} = \frac{16}{20} - \frac{15}{20} = \frac{1}{20}$$

↳

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

$$\frac{14}{21} + \frac{15}{21} = \frac{29}{21} = \frac{18}{21}$$

↳

$$\frac{4}{9} \div \frac{2}{3} = \frac{4}{9} \cdot \frac{3}{2} = \frac{4 \cdot 3}{9 \cdot 2} = \frac{12}{18} = \frac{2}{3}$$

↳

$$\frac{3}{7} \div 2 = \frac{3}{14}$$

$$\frac{3}{7} \div \frac{14}{7} = \frac{3}{14}$$

↳

$$\frac{4}{9} \div \frac{2}{3} = \frac{12}{18} = \frac{2}{3}$$

10. a) 13st

$$\begin{array}{l}
 \text{b)} \\
 \text{f:51} \\
 \text{f:52} \\
 \text{f:53}
 \end{array}
 \left| \begin{array}{l}
 4 \cdot 1 - 3 \\
 4 \cdot 2 - 3 \\
 4 \cdot 3 - 3
 \end{array} \right. = \left| \begin{array}{l}
 1 \\
 9 \\
 9
 \end{array} \right. \begin{array}{l}
 +4 \\
 +4 \\
 +4
 \end{array}$$

$$\begin{array}{l}
 \text{c)} \\
 4n - 3 = 229 \\
 4n = 232 \\
 \boxed{n = 58}
 \end{array}$$

$$\text{Sum: } \boxed{4n - 3}$$