

KOE ti 16.11 klo 15:15 - 16:50

juhlasalissa (5. kerros)

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s. 32

$$a) \quad |5| + |-2| \\ = 5 + 2 = 7$$

$$b) \quad |5| - |-2| \\ = 5 - 2 = 3$$

$$c) \quad |5+2| = |7| = 7$$

$$d) \quad |5-2| = |3| = 3$$

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$$a) \quad -8 + (-4) - (+3) - (-1) \\ = -8 - 4 - 3 + 1 \\ = -12 - 3 + 1 \\ = -15 + 1 \\ = -14$$

$$\begin{aligned} -1 - 1 &= -2 \\ -1 \cdot (-1) &= 1 \end{aligned}$$

$$b) \quad 2 \cdot (-3) \cdot (-5) \cdot (-2) \\ = -6 \cdot (-5) \cdot (-2) \\ = 30 \cdot (-2) \\ = -60$$

$$\begin{aligned}
 c) \quad & 240 : (-6) : (-5) : 4 \\
 & = -40 : (-5) : 4 \\
 & = 8 : 4 \\
 & = \underline{2}
 \end{aligned}$$

$$\begin{aligned}
 (169) \quad a) \quad & 48 : (2 + 7 \cdot (-2)) \\
 & = 48 : (2 - 14) \\
 & = 48 : (-12) \\
 & = -4
 \end{aligned}$$

$$\begin{aligned}
 b) \quad & -3 \cdot (-4) + 5 \\
 & = 12 + 5 = 17
 \end{aligned}$$

$$\begin{aligned}
 c) \quad & -7 + (-12) : 3 \\
 & = -7 - 4 \\
 & = -11
 \end{aligned}$$

$$\begin{aligned}
 (170) \quad a) \quad & -8 \cdot (-6) + 4 : (-2) \\
 & = -8 \cdot (-2) : (-2) \\
 & = 16 : (-2) \\
 & = \underline{-8}
 \end{aligned}$$

$$\begin{aligned}
 b) \quad & -8 \cdot (-6) + 4 : (-2) \\
 & = 48 - 2 \\
 & = 46
 \end{aligned}$$

$$\begin{aligned}
 c) & (-8 \cdot (-6) + 4) : (-2) \\
 &= (48 + 4) : (-2) \\
 &= 52 : (-2) \\
 &= -26
 \end{aligned}$$

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a) Laske $\text{syt}(12, 30) = \underline{\underline{6}}$

$$\begin{array}{c}
 12 \\
 \wedge \\
 2 \cdot 6 \\
 \wedge \\
 2 \cdot 3
 \end{array}$$

$$12 = 2 \cdot 2 \cdot 3$$

$$30 = 2 \cdot 3 \cdot 5$$

$$\begin{array}{c}
 30 \\
 \wedge \\
 3 \cdot 10 \\
 \wedge \\
 2 \cdot 5
 \end{array}$$

$$2 \cdot 3 = 6$$

b) $\text{sy}(24, 80) = \underline{\underline{8}}$

$$\begin{array}{c}
 24 \\
 \wedge \\
 4 \cdot 6 \\
 \wedge \quad \wedge \\
 2 \cdot 2 \quad 2 \cdot 3
 \end{array}$$

$$24 = 2 \cdot 2 \cdot 2 \cdot 3$$

$$80 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5$$

$$\begin{array}{c}
 80 \\
 \wedge \\
 8 \cdot 10 \\
 \wedge \quad \wedge \\
 (2 \cdot 4) \quad (2 \cdot 5) \\
 \wedge \quad \wedge \\
 (2 \cdot 2)
 \end{array}$$

$$2 \cdot 2 \cdot 2 = 8$$

c) $\text{sy}(30, 105) = 15$

$$\begin{array}{c}
 30 \\
 \wedge \\
 3 \cdot 10 \\
 \wedge \\
 2 \cdot 5
 \end{array}$$

$$105$$

$$\begin{array}{c}
 \wedge \\
 5 \cdot 21 \\
 \wedge \\
 3 \cdot 7
 \end{array}$$

$$30 = 2 \cdot 3 \cdot 5$$

$$105 = 3 \cdot 5 \cdot 7$$

$$3 \cdot 5 = 15$$

$$d) \text{ Syt } (48, 120) = 24$$

$$\begin{array}{c} 48 \\ \wedge \\ 2 \cdot 24 \\ \wedge \\ 2 \cdot 12 \\ \wedge \\ 2 \cdot 6 \\ \wedge \\ 2 \cdot 3 \end{array}$$

$$\begin{array}{c} 120 \\ \wedge \\ 10 \cdot 12 \\ \wedge \quad \wedge \\ 2 \cdot 5 \quad 2 \cdot 6 \\ \quad \wedge \\ \quad 2 \cdot 3 \end{array}$$

$$\begin{array}{l} 48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \\ 120 = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 \end{array}$$

$$2 \cdot 2 \cdot 2 \cdot 3 = 24$$