Math 3, HMW from class 19

WARM UP

1. Calculate, follow the order of operations:

$$24 : 3 - (3 + 5 \cdot 2 - (10 : 2 + 1) = \ldots$$

(6) (7) (4) (3) (5) (1) (2)

_____

a) $200 - 80 \div 5 + 3 \times 4 =$ _____

b) $4 \times 8 + 42 \div 6 \times 5 =$ _____

c) $63 + 100 \div 4 - 8 \times 0 =$ _____

d) $72 \times 10 - 64 \div 2 \div 4 =$ _____

e) $54 + (13 + 61 - 4 \times (2 + 3)) =$ _____

f) $(4 + (4 + (12 - 6 \div 2)) - 2) - 6 =$ _____

2. Calculate by the most optimal way:

10m – 6m 9cm + 2m 8cm + 4m 1cm = _____

14m 5dm – 7m 5dm8cm – 6m2cm + 7m1dm = _____

_____

3. Compare without making a calculation. Use <, > , =

$(54 - 42) \div 3 \ldots 54 \div 3 - 42 \div 3$ $18 \times 12 \ldots 11 \times 18 - 18$

54 x (6 – 3) … 54 x 6 – 54 x 3 204 x 3 ... 204 x 2 – 204

QUIZ

1.

a) $63 \div (81 \div 9) + (8 \times 7 - 2) \div 6 =$ _____

b) $80 \div 20 + (66 \div 6 - 77 \div 11) - 63 \div (81 \div 9) =$ _____

2. Consider sets: **A** = {Monday, Tuesday, Saturday} and **B** = {Tuesday, Wednesday, Saturday}

a) By using {}, define the elements of the set **A∩B**. _____

b) By using {}, define the elements of the set **A∪B**. _____

c) By using $\in$ *or* $\notin$, find an element which $\in$ to both sets A and B _____

d) By using $\in$ *or* $\notin$, find an element which $\in$ to set A and doesn't belong set B and vice versa _____

e) By using $\subset$ *or* $\not\subset$, find a set C which is subset of both set A and B _____

f) By using $\subset$ *or* $\not\subset$, find a set C which is subset of set A and isn't subset of set B and vice versa: _____

g) What is the Universal set of both sets A and B? _____

Consider a set **D** = {Thursday, Sunday}

a) What is **A∩D**? _____

b) What is **B∩D?** _____